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MILITARY MANPOWER TRAINING REPORT FOR FY 1984(U)  
ASSISTANT SECRETARY OF DEFENSE (MANPOWER RESERVE  
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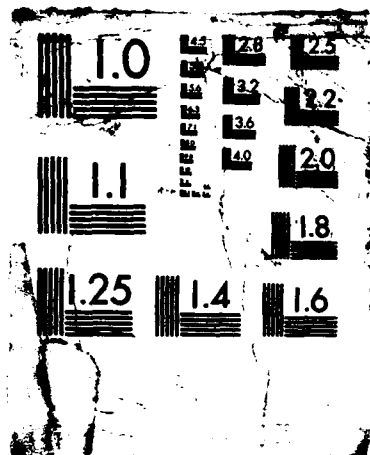
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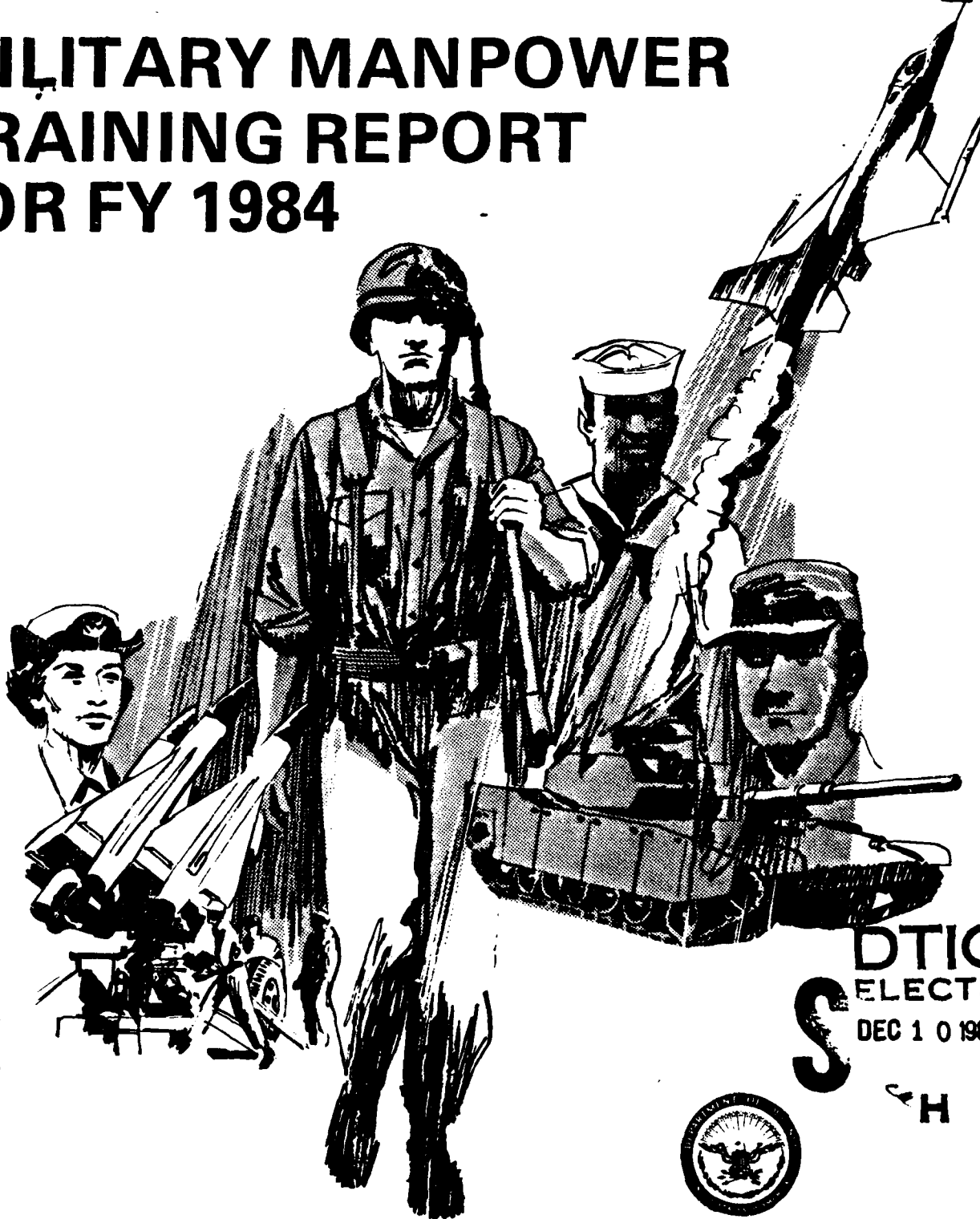


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# MILITARY MANPOWER TRAINING REPORT FOR FY 1984

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Department of Defense  
March 1983

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<p>The Military Manpower Training Report of the Secretary of Defense is submitted to the Congress annually. It specifically supports the Department of Defense request for authorization of average military student training loads for each component, active and reserve, of each Service. It recommends the average student load for each category of individual training and education and includes justification for, and explanation of, the average student loads recommended. <i>Keywords:</i></p> <p><i>for Fiscal Year 1984.</i></p>				
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 REPORT  
 FOR FY 1984

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DEPARTMENT OF DEFENSE  
 March 1983



Prepared by

Office of the Assistant Secretary of Defense  
 (Manpower, Reserve Affairs and Logistics)

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## EXECUTIVE SUMMARY

The Military Manpower Training Report of the Secretary of Defense is submitted to the Congress in accordance with 10 U.S.C. 138(d)(2), which states:

The Secretary of Defense shall submit to Congress a written report, not later than March 1 of each fiscal year, recommending the average student load for each category of training for each component of the armed forces for the next three fiscal years, and shall include in that report justification for, and explanation of, the average student loads recommended.

This report specifically supports the Department of Defense request for authorization of average military student training loads for each component, active and reserve, of each Service for Fiscal Year 1984. Requested training loads are shown in the following table.

### Requested Training Loads, FY 1984 and FY 1985

	<u>FY 1984</u>	<u>FY 1985</u>
<u>Active Components</u>		
Army	71,817	77,365
Navy	69,911	67,987
Marine Corps	21,105	21,185
Air Force	<u>49,007</u>	<u>53,283</u>
Subtotal	208,840	219,820
<u>Reserve Components</u>		
Army National Guard	21,105	20,134
Army Reserve	12,724	11,605
Naval Reserve	2,886	2,967
Marine Corps Reserve	3,223	3,223
Air National Guard	2,845	2,843
Air Force Reserve	<u>1,705</u>	<u>1,751</u>
Subtotal	44,488	42,523
TOTALS	253,328	262,343

The requested loads are consistent with the President's Budget for FY 1984 and the Department of Defense request for authorization of military manpower strengths, active and reserve, as submitted in February 1983.

## Definitions and Explanation of Training Loads

This report discusses the training and education of individuals within the Department of Defense, as opposed to the training of operational mission units or crews. Individual training and education, for purposes of this report, is divided into six categories:

- Recruit Training, given to enlisted entrants to the Services who have not had previous military service.
- One-Station Unit Training, an Army program which combines Recruit Training and training in certain skills into a single course.
- Officer Acquisition Training, which leads to a commission in one of the Services.
- Specialized Skill Training, needed to prepare military personnel for specific jobs in the Military Services.
- Flight Training, primarily for prospective pilots and navigators before they receive an initial operational assignment.
- Professional Development Education, relating to the advanced professional duties of military personnel or to advanced academic disciplines to meet Service requirements.

"Training loads" are the average number of students and trainees participating in formal individual training and education courses during the fiscal year. For a full fiscal year, training loads are the equivalent of student/trainee manyears for these participants, including both those in temporary duty and permanent change of station status.

The requirement for training in a baseline force is derived from the need to replace losses in each skill required in the military force structure. Losses, through separations, promotions and other causes, are projected at various points in the future and compared to the projected inventory of trained personnel. The deficit between the requirement in each skill and the inventory becomes a demand for an output of trained personnel. A phased input of students to the training establishment is then scheduled so that trained personnel, in each skill and skill level, are available at the proper time to replace the losses in those skills. The resulting workload placed on the training establishment is the basis of the training loads addressed in this report.

The training load for each component is the measure of the amount of training required for the members of that component, although some of the training will be done by other Services, in DoD schools, or in some cases by institutions outside the Department of Defense. The training of members of the Reserve Components included in the report is the formal school training provided by the active training establishment to individual members of the Reserve Components while they are on active duty for training; this is primarily training provided to non-prior service personnel entering the Reserve Components.

#### An Overview of Training Loads

During FY 1984 and FY 1985, total requested DoD training loads will range between approximately 253,328 and 262,343. About 82 percent of these annual loads is composed of training for members of the active forces; the remaining 18 percent of these loads is training for members of the Reserve Components, while on active duty, conducted by the active training establishment.

The following table displays the percentage of total active force loads and the percentage of total Reserve Component loads attributable to each of the major categories of training in FY 1984.

Percent Distribution of Training Loads, FY 1984

<u>Training Category</u>	<u>Active Forces</u>	<u>Reserve Components</u>
Recruit Training	21%	29%
One-Station Unit Training	7%	25%
Officer Acquisition Training	9%	1%
Specialized Skill Training	56%	43%
Flight Training	3%	1%
Professional Development Education	4%	1%
Total	100%	100%

It will be noted that the preponderant categories of training, in terms of training loads, are Recruit Training and Specialized Skill Training, both of which, along with One-Station Unit Training, are strongly influenced by the number of enlisted non-prior service accessions to the force. Other types of training -- all of Officer Acquisition Training, for example -- are also driven by the number of new accessions to the force. The following table divides the requested training loads for FY 1984 into two parts: training that is primarily accession-related, and is conducted for the purpose of turning a civilian into a qualified servicemember with a usable military skill; and other training, which, for the most part, is conducted for the purpose of preparing members in later stages of their military careers for more demanding duties.



Accession-Related Training and Training Loads, FY 1984  
(Thousands)

	<u>Active Forces</u>	<u>Reserve Components</u>	<u>Total Active &amp; Reserve</u>
<u>Accession-Related Loads</u>			
Recruit	43.4	13.2	56.6
One-Station Unit Training	14.0	11.3	25.3
Officer Acquisition	18.6	1.1	19.7
Initial Skill (Officer & Enlisted) <sup>a/</sup>	70.6	15.1	85.7
Undergraduate Flight	6.1	.6	6.7
Subtotal	152.7	41.3	194
<u>Other Loads</u>			
Other Specialized Skill	45.4	5.6	51.0
Other Flight	0.9	.1	1.0
Professional Development	9.4	.3	9.7
Subtotal	55.7	6.0	61.7
<u>Total Load</u>	<u>208.4</u>	<u>47.3</u>	<u>255.7</u>
<u>Accession-Related Loads as Percent of Total Loads</u>	73%	87%	76%

Note: Numbers may not add to due to rounding.

<sup>a/</sup> In some cases, includes some training for prior-service personnel or personnel who receive the training at a later stage in their career.

As the table shows, training primarily related to new accessions amounts to about 73 percent of all training programmed for the active forces in FY 1984; only about 27 percent is for subsequent training. The comparable proportions for the Reserve Components are about 87 and 13 percent. The concentration on accession-related training demonstrates the priority the Services place on training intended to produce new servicemembers who are motivated, amenable to discipline, and capable of productive service as members of military organizations.

The following table shows the trend in training loads.

Active and Reserve Training Load Trends by Service,  
FY 1973 - 84  
(Thousands)

	<u>FY 73</u>	<u>FY 80</u>	<u>FY 81</u>	<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>	<u>Percent Change</u>	
							<u>FY 73-84</u>	<u>FY82-84</u>
<u>Active Forces</u>								
Army	109	78	70	76	75	72	-34%	- 5%
Navy	77	58	63	64	66	67	-13%	+ 5%
Marine Corps	30	19	20	19	20	21	-30%	+10%
Air Force	59	42	43	44	44	49	-17%	+11%
Total Active	274	198	196	203	206	209	-24%	+ 3%
<u>Reserve Components</u>								
	25	28	32	38	45	44	+76%	+16%
Total DoD	299	226	229	241	250	253	-15%	+ 5%

Note: Calculations are affected by rounding.

The following table compares training loads by the major categories of training.

Active and Reserve Training Load Trends by Training Category  
FY 1973 - 84  
(Thousands)

	<u>FY 73</u>	<u>FY 80</u>	<u>FY 81</u>	<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>	<u>Percent Change</u>	
							<u>FY 73-84</u>	<u>FY82-84</u>
Recruit	94	51	52	53	55	56	-40%	+ 6%
Officer								
Acquisition	20	17	17	18	18	19	- 5%	+ 6%
Specialized								
Skill	157	115	121	129	134	135	-14%	+ 5%
Flight	9	5	7	7	8	8	-11%	+14%
Professional								
Development	19	8	8	9	9	10	-47%	+11%
One-Station Unit								
Training	-	29	23	25	26	25	--	-
Total	299	226	229	241	250	253	-15%	+ 5%

Note: Calculations are affected by rounding.

The training loads reflect shifts in resources and training capacities to complement force plans. Total training loads increase from 229,000 in FY 1981 to 253,000 in FY 1984. The growth in Specialized Skill Training accounts for much of the increase. Both the Army and Air Force will increase flight and flight-related training. In Professional Development, the training loads reflect a small increase in Enlisted Leadership Training and better management of the graduate education loads. These initiatives are detailed in the following Chapters III through IX.

#### Funding for Individual Training

Funds required to support the training in the training load request for FY 1984 total approximately \$13.4 billion. This amount includes pay and allowances for the students undergoing training, pay and allowances of military and civilian personnel in support of training, operations and maintenance costs, and training-related procurement and construction funded in FY 1984. The following table displays total training costs for each Service.

#### Funding of Individual Training by Service, FY 1984 (\$ Millions)

<u>Army</u>	<u>Navy</u>	<u>Marine Corps</u>	<u>Air Force</u>	<u>DoD</u>
\$5,328.3	\$3,894.4	\$908.5	\$3,264.5	\$13,395.7

The same funding is shown below for each of the major categories of training and for related support and travel.

#### Funding of Individual Training by Training Category, FY 1984 (\$ Millions)

Recruit Training	\$ 904.3
Army One-Station Unit Training	294.8
Officer Acquisition Training	400.2
Specialized Skill Training	3,179.4
Flight Training	1,924.6
Professional Development Education	465.5
Medical Training	382.8
BOS and Direct Training Support	3,787.6
Management Headquarters	119.3
PCS Cost for Training	541.3
TDY and Reserve Component	
Pay and Allowances	<u>1,395.9</u>
Total	\$13,395.7

Note: Numbers may not add due to rounding.

Funding estimates are based on data contained in DoD's Five Year Defense Program (FYDP). This report is consistent with resource estimates in the President's budget, the justification material submitted to the Congress, the Five Year Defense Program and other internal DoD management reports.

#### Manpower for Individual Training

Individual training requires manpower to conduct and support instruction, manage military schools and training centers, maintain training bases and provide support to students, military staff members and their dependents. Chapter IX of this report provides an analysis of military and civilian manpower in individual training. Manpower in support of individual training for FY 1984, by the general functions it performs, is shown in the following table.

DoD Manpower in Support of Individual Training, FY 1984  
(End Strength, Thousands)

	<u>Military</u>	<u>Civilian</u>	<u>Total</u>
Training and Direct Training Support <u>a/</u>	100.0	20.6	120.6
Base Operating Support	32.1	38.3	70.4
Major Training Headquarters	1.8	1.9	3.7
Total	133.9	60.8	194.7

a/ Includes instructors, instructional support, school/training center administration, student supervision.

The following summary shows that manpower in support of individual training is slightly higher (+1 percent) in FY 1984 than in FY 1982. Base Operating Support has been reduced in prior years and continues a gradual decline between FY 1982 and FY 1984, down 6 percent. Manpower at major training headquarters remains unchanged. Overall, the total manpower declines show reductions in manpower for Base Operating Support which are largely offset by the increases in manpower for Training and Direct Training Support.

Trends, Manpower in Support of Training, FY 1977-84  
(Combined Military and Civilian End Strengths, Thousands)

	<u>FY 77</u>	<u>FY 82</u>	<u>FY 84</u>	<u>Percent Change</u>	
				<u>FY 77-84</u>	<u>FY 82-84</u>
Training and Direct					
Training Support	130	115	121	- 7%	+ 5%
Base Operating Support	81	74	70	-16%	- 6%
Major Training					
Headquarters	4	4	4	-	-
Total	215	193	195	-10%	+0.5%

Training workloads -- that is, all students trained including DoD military students, foreign students and students from other U.S. agencies -- have increased as the following table shows.

Training Workloads, FY 1977-84  
(Thousands)

<u>FY 77</u>	<u>FY 82</u>	<u>FY 84</u>	<u>Percent Changes</u>	
			<u>FY 77-84</u>	<u>FY 82-84</u>
238	256	266	+ 12%	+ 4%

The stability in training manpower with the increase in training workload shows a productivity improvement in the Service training establishments. This is consistent with DoD's general emphasis on increased efficiency in support areas.

The Necessity for Good Training

The objective of individual training is to provide the operational forces with personnel adequately trained to assume jobs in military units. Without effective training and education programs, the operational forces would be manned with personnel who are less than fully qualified for their jobs. Since the nation cannot predict when or where war may break out or count on an extended period for mobilization, we must have effective individual training to assure that our operational units are capable of carrying out national security missions in peace or war.

MILITARY MANPOWER TRAINING

REPORT FOR FY 1983

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## INTRODUCTION

Training Requirements and Manpower Requirements

Requirements for training and education of military personnel are derived ultimately from basic national security objectives. This Report, the Report of the Secretary of Defense to the Congress on the FY 1984 Budget, and the Defense Manpower Requirements Report, describe the progression from national security objectives to training load requirements. The Report of the Secretary of Defense explains the relationship between the threat and the forces designed to cope with the threat. The Manpower Requirements Report relates these forces to the requirement for trained manpower to man the forces. The Military Manpower Training Report takes as a starting point the requirement for trained military manpower described in the Manpower Requirements Report. It then describes how these requirements relate to the demand placed on the military training establishment to supply this trained manpower, and how this demand leads to the DoD request for military student training load authorizations for each component of the Military Services. The Manpower Requirements Report and this Report are mutually supportive; however, the data in the two reports are not interchangeable or directly comparable. The principal reason for this difference is that the main focus of the Manpower Requirements Report is upon requested strength on the last day of fiscal years (that is, end strength), whereas the main focus of this Military Manpower Training Report is upon requested student loads, a concept more comparable to average strength, or man-years, than to end strength.

Definition of "Individual Training and Education"

This report addresses the "individual training and education" activities of the Department of Defense. These involve the training of individual military members in formal courses conducted by organizations whose predominant mission is training; this training is to be differentiated from training activities conducted by operational units incidental to their primary combat, combat support, or combat service support missions. "Force support training," the training of organized crews and units for the performance of specific missions, is not included in the training loads discussed in this report, but is discussed in the Manpower Requirements Report. In certain categories of training, on-the-job training (OJT) in units supplements or substitutes to some extent for all or part of formal course training requirements; OJT is also not included in the training loads discussed in this Report.

The purpose of individual training and education is to give the individual servicemember the skills and knowledge that will qualify him or her to perform effectively in subsequent assignments as a member of

an operational military organization. "Individual training and education" includes all formal military and technical training and professional education conducted under centralized control, generally under the supervision of a Service training command or similar organization. The trainees and students undergoing the training or education addressed in the report include the following categories of personnel:

1. Active Force: officers, enlisted personnel, and Service Academy cadets and midshipmen.
2. Reserve Components: officers and enlisted members on active duty for training in formal school courses.

Training of some civilian students, prior to their entry into the Services, in such programs as ROTC, is also discussed in the report. However, training loads are properly requested only for training and education of personnel received while they are in active military status.

In general, the training discussed in this report is conducted under Major Defense Program VIII, "Training, Medical and Other General Personnel Activities," as presented in the Defense budget. Exceptions to these general rules are pointed out, where appropriate, in the body of the report.

Personnel undergoing individual training and education are classified, for manpower accounting purposes, as either trainees, students, or cadets, unless they are undergoing training while on temporary duty or temporary additional duty from their unit of assignment, or unless they are being trained while en route to new stations as transients. The term "trainees" is generally used for all enlisted personnel in Recruit Training and Initial Skill Training. "Cadets" (or "midshipmen" in the case of the Naval Academy) are members being educated at one of the Service Academies. All others receiving individual training and education are identified as "students". The distinction is not important for the purposes of this report, and the term "student" will be used where appropriate to describe members of all three classifications as well as temporary duty and transient personnel being trained.

The term "training" generally refers to instruction in military subjects either at a basic level, as in Recruit Training, or in a military or job-related technical specialty, such as pilot training or training in radar repair. "Education" generally refers to study either in more advanced subjects or in military subjects which apply to an entire Service or to the broad mission of national security, as, for example, the curriculum at the National War College. The term "training" will be used in this report to refer to individual training and education as a whole.

## FY 1984 Training Report and the FY 1984 Budget

It is important to emphasize that this report, while consistent with the Department of Defense Budget for FY 1984, differs in structure from the budget justification in two major respects. Budget justifications are focused on explaining how, by whom, and why money is to be spent; budgets for training and their justifications, therefore, are prepared by the Service which conducts the training programs and must obtain funds to train personnel from other Services in addition to its own. By contrast, this report details and emphasizes the training loads of the components of the parent Service whose members are undergoing the training, and deals in less detail with resources and funds required by the Service which conducts the training. For example, Navy personnel being trained by the Air Force are treated in this report as part of the Navy military student training load, since they are being trained to fill Navy requirements. However, in budget documents, funds to conduct training for these students, who are a part of the Air Force training workload, are included in Air Force appropriation requests.

### Definitions of Major Training Categories

The portion of this report which discusses training loads in detail is organized into five chapters (Chapters III through VII), each of which addresses one of the major categories of training. These major categories are briefly defined below. Each chapter will more fully describe the training category and its sub-categories, the requested training loads, and the training methodology.

Recruit Training includes the basic introductory physical conditioning, military, and indoctrination training given to all new enlisted entrants in each of the Services. One-Station Unit Training (OSUT) is an Army training program which meets the training objectives of both Recruit and Specialized Skill Training in certain skills through a single course for new Service entrants which is conducted by a single training unit. Since it includes elements of two categories of training, it is treated separately in this report.

Officer Acquisition Training, sometimes called pre-commissioning training, includes all types of education and training leading to a commission in one of the Services, such as the programs of the Service Academies and officer candidate schools. Students not in active military status, such as Reserve Officer Training Corps students, are excluded from requested loads in this Report.

Specialized Skill Training provides officers and enlisted personnel with new or higher levels of skill in military specialties or functional areas to match specific job requirements.

This category includes Army Advanced Individual Training and Navy Apprenticeship Training. Certain flight-related training, such as

training of air traffic controllers and some aircraft mechanics, and survival training in the Air Force, is reported under Specialized Skill Training. None of the officer acquisition programs are included in Specialized Skill Training.

Flight Training provides the individual flying skills needed by pilots, navigators, and naval flight officers to permit them to function effectively upon their assignment to operational mission units. The Service undergraduate flight training programs culminate in an officer, or an Army warrant officer, receiving "wings" and being categorized as a "designated" or "rated" officer.

The undergraduate programs do not include the major formal advanced flight training programs. Training conducted by Service advanced flight training organizations is not considered individual training and is therefore beyond the scope of this report.

Professional Development Education includes educational courses conducted at the higher-level Service schools or at civilian institutions to broaden the outlook and knowledge of senior military personnel or to impart knowledge in advanced academic disciplines to meet Service requirements. Training of this type is required to prepare individuals for progressively more demanding assignments, particularly for higher command and staff positions. Programs include undergraduate and graduate education and other courses not leading to a degree.

Enlisted leadership training for senior non-commissioned officers is included in Professional Development Education rather than in Specialized Skill Training to recognize its broad professional content. However, Navy leadership training, which is given to all grades of petty officers, is included in Specialized Skill Training, as is the rest of NCO training for more junior personnel conducted by the other Services.

#### Determining Training Requirements and Training Load

The amount and type of training to be conducted in the Department of Defense is the product of a series of calculations that is described in Appendix A to this report.

In brief, the process begins with the determination of the requirement for military personnel with specific skills to fill positions in the approved or projected force. The requirement for trained manpower must then be measured against the available inventory of trained personnel projected at various points in the future. This comparison, made for each military skill and skill level, establishes the need for the training of personnel, on a phased basis, to fill current and projected skill shortages. The requirement for the training of personnel on a schedule calculated to maintain the skill inventory becomes the workload of the Service training establishments. It is measured in terms of the average military training student load, or "training load". The training load

for a given period is not only a measure of the amount of training to be accomplished; but, adjusted to take account of the Service conducting the training, it becomes a "workload" and thus it is also a basis for establishing the requirement for resources (manpower, funds, materiel and facilities) needed to support the training to be conducted by a Service.

Conceptually, the training load for a given period is the average student strength for the period, and approximates man-years. The total training load is the sum of the loads for all the included individual courses. Training loads for individual courses are determined by the following factors:

1. The length of the training course.
2. The desired number of graduates, or output, of the course.
3. The number of entrants, or inputs, into the course required to obtain the desired output. This, in turn, depends on the pattern of attrition, or failures of entrants to graduate, for the course.

If attrition occurs at a constant rate during a course, the training load is computed by the following formula:

$$\frac{\text{Entrants} + \text{Graduates}}{2} \times \text{Course Length (expressed as a fraction of a year)} = \text{Load}$$

This is the basic method for computing the training loads discussed in this report. However, if attrition does not occur at a uniform rate, as is frequently the case, and the rate and phasing can be specified, more complex formulas and computer simulations are used to estimate training loads.

#### Accuracy in Projecting Training Loads

In accordance with law, training load authorizations must be requested well in advance of the period when the training is actually conducted. This year, for example, in addition to the more refined estimates of loads needed for FY 1984, load authorizations must be requested for the fiscal year which begins more than a year after the request is submitted -- that is, loads for FY 1985, beginning October 1, 1984, must be requested in the spring of 1983. This statutory requirement implies the capability to predict future training loads with precision. In actuality, while loads for some long-leadtime programs, such as the Service Academies, can be predicted with considerable accuracy, there are many uncertainties in projecting training loads. Some of the causes of uncertainty are:

1. Unpredictability of individual decisions to enlist or re-enlist; this factor may lead to unanticipated changes in the skill

inventory, requiring changes in the composition or size of training loads, or to shifts of portions of the training load from one fiscal period to the following period.

2. Unanticipated changes in force structure, requiring a readjustment of the skill inventory and the mix of courses in the training load.

3. Changes in attrition rates and patterns, causing unprogrammed fluctuations in training rates and loads.

Through forecasting training needs as far as possible into the future and continuous review and adjustment of training inputs and loads, the Services are able to adapt the training system to changing conditions. However, it should be clear that extended projections are subject to error; adjustments are inevitable and, in fact, necessary for good management.

#### Training Load Request by Component and Category

The tables on the following two pages display in category detail the requested training loads for FY 1984 and FY 1985. The loads for each period are displayed by component and by each of the major categories of training.



Military Training Student Loads, Fiscal Year 1984, By Component and Major Training Category

	<u>Recruit Training</u>	<u>One-Station Unit Training</u>	<u>Officer Acquisition Training</u>	<u>Specialized Skill Training</u>	<u>Flight Training</u>	<u>Professional Development Education</u>	<u>Total</u>
<b>Active Forces</b>							
Army	11,105	14,050	4,673	37,977	1,366	2,646	71,817
Navy	14,014	-	7,007	42,228	1,836	1,826	66,911
Marine Corps	9,606	-	248	9,877	674	700	21,105
Air Force	8,678	-	6,610	26,419	3,082	4,218	49,007
Sub-Total	43,403	14,050	18,538	116,501	6,958	9,390	208,840
<b>Reserve Components</b>							
Army National Guard	5,094	8,535	44	7,188	186	58	21,105
Army Reserve	3,359	2,751	7	6,459	85	57	12,724
Naval Reserve	1,470	-	-	1,376	-	40	2,886
Marine Corps Reserve	1,798	-	329	1,074	-	22	3,223
Air National Guard	804	-	-	1,736	261	44	2,845
Air Force Reserve	397	-	29	1,128	99	52	1,705
Sub-Total	12,922	11,292	409	18,961	631	273	44,488
<b>Total</b>	56,325	25,342	18,947	135,462	7,589	9,663	253,328

Military Training Student Loads, Fiscal Year 1985, By Component and Major Training Category

	<u>Recruit Training</u>	<u>One-Station Unit Training</u>	<u>Officer Acquisition Training</u>	<u>Specialized Skill Training</u>	<u>Flight Training</u>	<u>Professional Development Education</u>	<u>Total</u>
<u>Active Forces</u>							
Army	12,195	14,892	4,857	41,326	1,442	2,653	77,365
Navy	14,207	-	7,249	42,799	1,827	1,905	67,987
Marine Corps	9,606	-	268	9,922	674	715	21,185
Air Force	9,731	-	6,448	29,642	3,160	4,302	53,283
Sub-Total	45,739	14,892	18,822	123,689	7,103	9,575	219,820
<u>Reserve Components</u>							
Army National Guard	4,405	8,243	44	7,185	199	58	20,134
Army Reserve	3,289	2,318	7	5,847	80	64	11,605
Naval Reserve	1,553	-	-	1,374	-	40	2,967
Marine Corps Reserve	1,798	-	329	1,074	-	22	3,223
Air National Guard	804	-	-	1,735	260	44	2,843
Air Force Reserve	397	-	30	1,178	94	52	1,751
Sub-Total	12,246	10,561	410	18,393	633	280	42,523
Total	57,985	25,453	19,232	142,082	7,736	9,855	262,343

## II

### TRAINING PATTERNS

#### General Description

The development of servicemembers through formal training and education and practical experience follows a generally common pattern. The new servicemember (or, in the case of some Officer Acquisition Training, the prospective servicemember) first receives training designed to develop the basic attributes of all members of his or her Service. In most cases, the graduate of the initial training is then taught the skills required for a military job at the lowest skill level. Those servicemembers who do not remain beyond their initial enlistments or obligated terms of service do not, in most cases, receive additional formal training. Those who remain, the career members, will further develop their military knowledge and skills through experience in military jobs, interspersed, as required, with training or education needed to prepare them for more responsible positions. During any part of their terms of service, military personnel are also encouraged, as their military assignments may permit, to improve their educational attainments to the benefit of themselves and their Services through off-duty and voluntary education programs that may be available. This combination of job experience, training and education is essential to the development of a military force that is capable of carrying out the national security mission.

Enlisted personnel usually work in relatively specialized skill fields, whereas the duties of officers, particularly of those in the career force, call for broader expertise. For these reasons, the training and education patterns of officers and enlisted personnel differ, and will be discussed separately in the following sections of this chapter.

#### Officer Training Patterns

Each Service has developed career patterns to prepare its officers to assume progressively higher command and staff responsibilities. These career patterns are composed of operational assignments, during which the officer learns his profession through experience, and periodic individual training and education, which provide the officer with knowledge and skills needed for progressively more demanding subsequent assignments.

Officer training and education can be divided generally into three types. First, each Service maintains a system of professional military education that is progressive in nature. This education is related more to the increasing responsibilities associated with career progression to more senior grades than to the individual's current assignment or specialty. It is primarily the study of officership and the command and staff knowledge required of all professionals. The second type of

education and training includes the many specific skill-producing courses that are conducted to enable the officer to perform immediately upon assignment to a specialized or functional area. These courses vary in length from a few days to several months. They present, for the most part, strictly job-oriented training, and are often in the nature of orientation or refresher courses. Third, the Services also provide selected officers with advanced academic education, either in-house or at civilian institutions, to meet specific requirements for officers educated in technical, scientific, engineering, and managerial fields. Officers also participate in a variety of other educational programs, many on a part-time basis, usually with the student sharing in the cost.

Training and education for career officers, involving one or more of the types of training and education described above, follow the general patterns outlined in the following paragraphs. The patterns vary among the Services to some extent, and not all officers will participate in all of the schooling described. The number of officers participating in schooling becomes progressively smaller, and participation more selective and demanding, as officers move through their careers.

Non-career officers (those who may be expected to serve only an initial tour of active duty) generally receive training only at the entry level. In some cases, they may receive skill-oriented courses such as pilot training, which is lengthy and results in a commensurately longer active duty obligation, or training as maintenance or communications officers.

Entry Level Training. Upon entry, the young officer's initial training is Service-oriented and intended to prepare him or her for duties at the lowest operational level -- company, squadron, or ship. The newly commissioned Army officer will attend a basic course conducted by the particular branch of the Army to which he is assigned, such as infantry, armor or artillery. A Navy ensign is usually assigned to school training based on his warfare specialty. The new Marine officer attends the Officer Basic School. A newly commissioned officer in the Air Force may go to Flight Training or training in a technical specialty.

Developmental Training. After some operational experience, the career officer requires further schooling to prepare him for service at the next level -- for example, as a unit commander or a headquarters staff officer. In the Army, this entails a return to his branch school for more advanced training. An Air Force officer could be selected for the Squadron Officer School. A Marine Corps officer would normally attend the Amphibious Warfare Course. Navy officers at this stage in their careers may attend a school in a specialty appropriate to their future assignments.

To satisfy Service requirements and as a further step in professional development, some officers are selected for participation in an advanced academic educational program at a civilian institution or one of the two Service technical institutes, the Naval Postgraduate School and the Air Force Institute of Technology.

Intermediate Service Schools. As the officer progresses (between six and 16 years of service, depending on Service criteria) he is ready for the next, or command and staff, level of professional schooling in preparation for assuming higher responsibilities. Attendance is competitive, as not all officers are selected to attend. Each Service has such a course; the Armed Forces Staff College, a joint school, is also conducted at this level. Each Service has its own emphasis with regard to this schooling because of its pattern of missions; these differences are reflected in the school curricula.

Senior Service Schools. Subsequent to the intermediate years, little technical training is provided. The final level of professional military education is that of the Senior Service Schools -- the war colleges -- for which attendance is highly selective. The Army, Navy, and Air Force each has a war college. In addition, there is the National Defense University, consisting of the National War College and the Industrial College of the Armed Forces. Officers graduating from the Senior Service Schools have the academic foundation required for command and staff positions at the highest level. The different curricula of these schools reflect the differing patterns of missions among the Services.

#### Enlisted Training Patterns

An individual entering upon an initial enlistment is provided Recruit Training that introduces him or her to military life. Following this indoctrination training, an individual will follow one of three possible avenues:

1. Initial Skill Training, which prepares the enlistee for an initial duty assignment, or
2. Direct duty assignment on the basis of a skill already acquired in civilian life, or
3. Direct assignment to first duty unit for on-the-job training (OJT).

The Army One-Station Unit Training (OSUT) program is a variation of the first of these three avenues, since it combines Recruit and Initial Skill Training into a single course, followed by assignment to an operational unit. About 42 percent of Active Army entrants to initial enlisted training will be trained under the OSUT in FY 1984. For the Reserve Components, 48 percent of the Army entrants will receive OSUT.

The expected distribution of Active Recruit Training graduates in FY 1984 is as follows:

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Disposition of Active Recruit Training Graduates in FY 1983

	<u>Army</u>	<u>Navy a/</u>	<u>Marine Corps</u>	<u>Air Force</u>
To Initial Skill Training	93%	90%	89%	95%
To Duty Assignment (Civilian-Acquired Skill)	1%	*	*	1%
To Duty Assignment (On- the-Job Training)	6%	10%	11%	4%
	100%	100%	100%	100%

\*Less than 1/2 percent.

a/ 26% of Navy Recruit Training graduates attend short "Apprenticeship Training" courses (carried under Initial Skill Training in this report) as a preliminary to further training on the job.

As the table indicates, most enlisted personnel receive formal Initial Skill Training to provide them with a basic military skill. The combination of Recruit Training and Initial Skill Training (or Army One-Station Unit Training) is the foundation of the development of enlisted personnel, because it turns civilians into servicemembers who are qualified to fill positions in military units.

Other than for on-the-job training in the work environment, enlisted personnel normally receive no further formal training beyond the training previously described during their initial enlistments. The major exception is Navy training, conducted by fleet training centers, in such shipboard duties as firefighting.

Subsequent to reenlistment, an individual may be selected for attendance at a journeyman level course in his specific occupational area. This training emphasizes the appropriate military applications for the skills being taught. In most cases, however, enlisted personnel advance in their skill areas through experience gained on the job and without extensive additional formal training. Some enlisted personnel are given the opportunity to attend NCO professional development training programs which prepare them for increased supervisory and leadership responsibilities.

Normally, few enlisted personnel attend regularly programmed specialized courses after mid-career. There are instances, of course, where new equipment or systems are introduced into a Service, and senior level enlisted personnel are formally trained in operation and maintenance techniques. Selected senior enlisted personnel attend schools, such as the Army's Sergeants Major Academy, which are, on the NCO level, similar in purpose to the Intermediate and Senior Service Schools in the officer education system.

### III

#### RECRUIT TRAINING AND ARMY ONE-STATION UNIT TRAINING

##### General Description

Recruit Training is the basic introductory and indoctrination training given to enlisted personnel of each Service upon their initial entry into military service. Recruit Training provides an orderly transition from civilian to military life, motivation to become a dedicated and productive member of the service, and instruction in the basic skills that are required by all members of the Military Service involved. Training in each of the Services emphasizes discipline, observance of military rules, social conduct, physical conditioning and the building of self-confidence and pride in being a member of the service. Beyond these common objectives, Recruit Training in each Service is designed to meet the particular training requirements of that Service which are a reflection of the Service mission. The graduate of Recruit Training has the basic knowledge and skills required to qualify him or her, after formal or on-the-job training in a particular skill, for service in an operational unit of the parent Service.

Army One-Station Unit Training (OSUT) is unique in that it combines Recruit Training and Initial Skill Training in certain skills into a single, course conducted by a single training unit at a single training installation. OSUT therefore includes elements of two major training categories; consequently, it is treated separately at the end of this chapter. OSUT training loads are not included within the Recruit Training loads displayed in this chapter.

##### Recruit Training Loads

The training loads for FY 1975 through FY 1984 for each component of each Military Service are in the table on the following page.

RECRUIT TRAINING LOADS, FY 1975-84<sup>a/</sup>

<u>Service Component</u>	<u>FY 75</u>	<u>FY 76</u>	<u>FY 77</u>	<u>FY 78</u>	<u>FY 79</u>	<u>FY 80</u>	<u>FY 81</u>	<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>
<u>Army<sup>b/</sup></u>										
Active	25,902	23,611	20,823	12,957	9,141	10,453	9,831	10,533	12,870	11,105
Natl Guard	3,283	3,864	4,140	3,884	2,707	2,661	2,835	3,590	4,235	5,094
Reserve	1,847	1,548	1,529	1,620	2,062	2,339	2,959	4,378	4,442	3,359
<u>Navy</u>										
Active	18,569	17,642	17,407	14,199	12,440	13,597	14,288	13,315	13,857	14,014
Reserve	562	281	338	361	294	290	339	312	312	<del>1,407</del> 1,417
<u>Marine Corps</u>										
Active	14,112	12,350	11,288	9,652	9,859	10,166	9,691	9,434	8,897	9,606
Reserve	1,717	1,694	1,801	1,935	1,446	1,623	2,013	2,031	1,768	1,798
<u>Air Force</u>										
Active	9,720	9,348	8,666	8,151	7,712	8,872	9,423	8,361	7,552	8,678
Natl Guard	390	475	404	459	426	677	740	749	804	804
Reserve	298	280	291	301	249	297	368	397	397	397
<u>DoD</u>										
Active	68,303	62,951	58,184	44,959	39,152	43,088	43,233	41,643	43,176	43,403
Gd/Res Tot	<u>8,097</u>	<u>8,142</u>	<u>8,503</u>	<u>8,560</u>	<u>7,184</u>	<u>7,887</u>	<u>9,254</u>	<u>11,457</u>	<u>11,958</u>	<u>12,922</u>
DoD Total	76,400	71,093	66,687	53,519	46,336	50,975	52,487	53,100	55,134	56,325

<sup>a/</sup> In this table and in all subsequent tables in this report, training loads for the years prior to and including FY 1982 data are actual, FY 1983 and subsequent year data are estimated.

<sup>b/</sup> Data do not include Army One-Station Unit Training loads.



The changes in Recruit Training loads from FY 1982 to FY 1984 are the result of changes in the number of non-prior service accessions.

### Recruit Training

The following table displays for Recruit Training the average training loads for each year from FY 1982 to 1984 and, for FY 1984, the number of entrants (input) and number of graduates (output). Data are shown separately for each component of each Service.

#### Training Inputs, Outputs, Loads, Recruit Training FY 1982 - 1984

<u>Service</u> <u>Component</u>	<u>FY 82</u> <u>Load</u>	<u>FY 83</u> <u>Load</u>	<u>FY 84</u> <u>Input</u>	<u>FY 84</u> <u>Output</u>	<u>FY 84</u> <u>Load</u>
<u>Army</u>					
Active	10,533	12,870	72,068	66,749	11,105
Reserve	4,378	4,442	22,740	21,352	3,359
Natl Guard	3,590	4,235	32,881	30,805	5,094
<u>Navy</u>					
Active	13,315	13,857	94,751	89,470	14,014
Reserve	312	312	10,000	8,191	1,470
<u>Marine Corps</u>					
Active	9,434	8,897	41,600	36,828	9,606
Reserve	2,031	1,768	7,952	6,681	1,798
<u>Air Force</u>					
Active	8,361	7,552	70,100	65,544	8,678
Reserve	397	397	3,204	2,996	397
Natl Guard	749	804	6,500	6,077	804
<u>DoD</u>					
Active	41,643	43,176	278,519	258,591	43,403
Res/Gd Tot	11,457	11,958	83,277	76,102	12,922
DoD Total	53,100	55,134	361,796	334,693	56,325

Each of the Services conducts training for women recruits that is similar in concept to Recruit Training for males. The training syllabi are essentially the same for males and females. In the Navy and Marine Corps, male and female Recruit Training is collocated but not integrated. The major difference between these male and female courses is that women recruits generally receive less training in weapons use and other combat oriented skills. The de-emphasis on combat skills in the Marine Corps causes the length of training for women to be somewhat shorter.

#### Rationale for Recruit Training

The underlying philosophy of Recruit Training in each of the Services is that the demands of military service are fundamentally different from those of civilian life. Military service requires a high level of discipline and physical fitness, a homogeneity of outlook, and an ability to live and work as part of a highly structured organization. There are few parallels in civilian society to the demands of military service. Each recruit, therefore, must be transformed into a member of the military team in order to function effectively in the military environment. The attitudes, habits, and basic skills formed in Recruit Training are the foundation of a cohesive military organization. Later training provides the skills and knowledge needed for specific jobs; Recruit Training shapes the civilian entrant into a dedicated member of his or her Military Service with the potential for further development.

The major determinants of Recruit Training loads are the total number of people entering service who must receive Recruit Training (input), the length of the training course, and projected patterns of attrition. Course length and attrition are discussed later in this chapter. The following two sections discuss inputs: first, inputs of active duty personnel, and second, inputs of members of the Reserve Components on active duty for initial training.

#### Active Duty Input

The annual recruiting objective for active duty enlistees without prior military service is a function of the following factors:

1. The projected requirement for trained enlisted personnel.
2. Current enlisted trained strengths.
3. Number of enlisted personnel currently in training.
4. Projected enlisted losses through separations or other reasons (e.g., desertion, death, acceptance of a commission, etc.).
5. Projected prior-service enlistments -- that is, the return from civilian life of former service-members.

"Trained strength" is the number of personnel required to fill "structure" spaces (i.e., positions in military organizations that require specific grades and skills) and individual "pipeline" spaces, such as transients en route between assignments. The Defense Manpower Requirements Report contains a full discussion of how military manpower requirements are determined. The projected trained strength requirement is compared with the projected trained strength inventory to forecast future skill and strength imbalances. Future shortages that are not expected to be satisfied either by prior-service enlistees or service-members currently in skill training courses determine the training output needed to man the force with trained personnel. To determine the necessary input to achieve this output, allowance must be made for course attrition, the number of students entering a course of instruction who fail to complete it. The total input requirement must, therefore, be increased to compensate for expected attrition losses.

The optimal leveling of monthly inputs to obtain the most efficient use of training staff personnel and training facilities is a continuing goal. However, the phasing of inputs must at times be varied in order to take advantage of the best recruiting periods for maintaining quality and quantity.

Historically, June through September and January have been the most productive recruiting months, reflecting behavioral patterns that are related to the civilian academic calendar. Enlistments increase (1) shortly after high school graduation, (2) when peers return to school in the fall, and (3) after the results of the first term academic work are announced.

The Services must accept most prospective enlistees at the time they are ready to enter service. Requiring enlistees to enter military service in phase with requirements and on an even-flow basis would result in the loss of many potential enlistees to other sources of employment. Accepting enlistees as they become available, however, requires a training structure capable of accommodating peak surges of enlistments.

#### Reserve Component Input

Persons enlisting in the National Guard and Reserve forces without active duty experience require the same Recruit Training as active duty enlistees, and for the same reasons. Recruit Training loads for the Reserve Components are based on the same factors as active force loads. Guard and Reserve trainees, while in Recruit Training, are mingled with active duty trainees in units so that their training is identical.

Reserve Component recruits form a significant part of the workload of the active Recruit Training establishment. In FY 1984, 23 percent of DoD Recruit Training loads, and 43 percent of Army's, are attributable to Guard and Reserve trainees.

The planning considerations for Reserve Component personnel are essentially similar to those for the active force; detailed phasing of this training is complicated, however, by the additional consideration of civilian employment or school commitments for these personnel. For this reason, a pool of personnel who have been enlisted but who have not yet been able to attend entry training is normal. It is important that this backlog is kept within a reasonable size.

#### Course Length and Course Content

Enlisted training loads depend not only upon the numbers of entrants but also on the extent of skills required of entering enlisted personnel by each Service. Enlisted personnel attain those skills in Recruit Training and in Specialized Skill Training. Specialized Skill Training is discussed in a subsequent chapter. Recruit Training course lengths are determined in part by how much of the required training is to be provided during the Recruit Training phase and how much is to be deferred to later training. The four Services, because of differences in their missions, take somewhat different approaches in establishing the content and length of their Recruit Training courses.

Recruit Training in each of the Services covers four areas: (1) some processing and testing; (2) introduction into Service life; (3) instruction in military courtesy, discipline, and hygiene; and (4) fundamental military-related training involving physical fitness, military drill, and self-defense. In addition, each Service provides training in military skills that should be possessed by all, or almost all, members of that Service. The degree to which these Service-wide required skills exist differs widely among the Services. This factor accounts for most of the differences in course content and, therefore, course length. The variance in quality of enlistees among the Services also has a bearing on course length; recruits with lower intelligence and lesser amenability to discipline require a longer training period to achieve training objectives.

The length of the standard Recruit Training course in each Service is shown in the following table:

Recruit Training Course Length FY 1984 (Weeks)

<u>Army</u>	<u>Navy</u>	<u>Marine Corps</u>	<u>Air Force</u>
7.9	7.7	10.3	6.0

Army and Marine Corps Recruit Training differ from the Air Force and Navy programs because all recruits are given intensive physical conditioning and instruction in basic ground combat skills, including the use of individual weapons. These Services subscribe to the view that all enlisted personnel must achieve a basic level of qualification in ground combat skills, and their Recruit Training curricula both provide a common core of training in these skills.

The Air Force accomplishes all Recruit Training in six weeks. Course content concentrates on indoctrination subjects. Relatively little training in Service-wide skills is provided, since there are few common skills needed by all Air Force enlisted personnel. In addition to subjects oriented toward indoctrinating recruits to military life, the Navy course includes phases designed to prepare them for conditions in a fleet environment. The Navy must be sure that recruits learn to live, work, and fight in restricted space such as they will find on board ship, often close to complex machinery and weapons.

The average length of time spent in recruit status in any of the Services may be longer than the standard course lengths discussed above. Some recruits fall behind their peers because of illness. Others require remedial training. If this cannot be accomplished by additional instructional hours the recruit may be sent to a special training unit or recycled to a following class to repeat a portion of the course.

The common objective of transforming a civilian into a disciplined servicemember tends to set a floor under the length of Recruit Training in each of the Services. Relatively few recruits have had much experience with life in a disciplined environment, been separated from their families and friends, or subjected to the stresses imposed by military life. Compensating for these factors takes not only training but also time. A minimum of six weeks in Recruit Training appears necessary to accomplish this objective alone in any of the Services. Greater amounts of time are required for those Services that must provide extensive training in required common skills.

#### Attrition in Recruit Training

A final factor in the computation of loads is the projection of the rate and timing of attrition. Recruits may fail to complete training for medical reasons, inability to absorb the instruction, lack of motivation, disciplinary problems, or a variety of administrative causes, such as discharge for fraudulent enlistment or family hardship. The following table shows projected attrition losses for FY 1984. The projected reduction in attrition is largely attributable to the improved quality of recruits in all Services. The Army and Navy are attracting a significantly greater number of high school diploma graduates, who are able to perform better in Recruit Training than non-high school graduates.

Recruit Training Attrition Projections, FY 1983 and 1984  
(Active and Reserve Combined)  
(Percent)

	<u>Army</u>	<u>Navy</u>	<u>Marine Corps</u>	<u>Air Force</u>
FY 83	7.0%	9.0%	16.0%	6.5%
FY 84	6.9%	9.0%	12.0%	6.5%

The timing of attrition varies from case to case. In the case of slow learners or individuals who have difficulty in adjusting to military life, trainees usually are reentered or given special instruction; those who do not respond adequately may not become attrition losses until late in the course.

Army One-Station Unit Training

The Army's One-Station Unit Training (OSUT) program combines Recruit Training and Initial Skill Training for certain skills into a single continuous course. Consequently, this report treats OSUT separately rather than arbitrarily breaking it into two segments.

OSUT loads for FY 1977 through 1984 are shown in the following table.

OSUT Training Loads, FY 1977-84

<u>Service Component</u>	<u>FY 77</u>	<u>FY 78</u>	<u>FY 79</u>	<u>FY 80</u>	<u>FY 81</u>	<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>
<u>Army</u>								
Active	6,660	9,252	16,944	20,651	14,043	14,968	13,963	14,050
Reserve	212	546	1,861	1,831	2,248	2,967	3,987	2,757
Natl Guard	1,553	2,559	4,973	6,229	6,457	6,953	8,052	8,535
Res/Gd Tot	1,765	3,105	6,834	8,060	8,705	9,920	12,039	11,292
DoD Total	8,425	12,357	23,778	28,711	22,748	24,888	26,002	25,342

The following table displays OSUT inputs and outputs, as well as loads, for FY 1984.

Training Inputs, Outputs and Loads, OSUT, FY 1984

<u>Service Component</u>	<u>Input</u>	<u>Output</u>	<u>Load</u>
<u>Army</u>			
Active	52,988	48,012	14,050
Reserve	12,759	11,786	2,757
Natl Guard	<u>38,793</u>	<u>35,161</u>	<u>8,535</u>
Res/Gd Total	<u>51,552</u>	<u>46,947</u>	<u>11,292</u>
DoD Total	104,540	94,959	25,342

In FY 1976, less than five percent of Army non-prior service entrants were trained under OSUT. In FY 1984, about 42 percent of active Army entrants to recruit training will be trained by this method. OSUT courses were extended in FY 1982 and FY 1983. OSUT will still require less training time than the separate Recruit Training and Initial Skill Training courses that it replaced.

The following table shows training time for OSUT courses:

OSUT Training Time, FY 1982-FY 1984

<u>Skill Area</u>	<u>Training Time (Weeks)</u>		
	<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>
Infantry	12.5	13.4	13.4
Artillery	13	14.2	14.1
Armor	14	14	14
Engineer	13	14.9	14.9
Military Police	14.7	14.7	14.7
Motor Transport Operation/			
Maintenance	-	16.6	16.6
Food Service	-	16.0	16.0

The time that would be required to complete Recruit Training and the Initial Skill Training in separate courses for these skills would be about 4 weeks longer, including the time required to move the trainee from one training organization to another. The shorter OSUT course lengths provide a significant savings in trainee manyears and, consequently, in trainee pay, allowances and support costs. Moreover the Army's extensive tests of OSUT indicate that the quality of OSUT graduates is generally as good as the quality of personnel trained under the longer two-course training system.

## IV

### OFFICER ACQUISITION TRAINING

#### General Description

Officer Acquisition Training consists of training and education programs leading to a commission in one of the Military Services. These programs fulfill the need both for junior officer entrants into the career force and for non-career junior officers in the force structure. Officer Acquisition Training programs produce officers for both the active forces and the Reserve Components.

Training loads for Officer Acquisition Training are shown in the table on the following page.



Total Officer Acquisition Training Loads, FY 1975-84

<u>Service</u>	<u>Component</u>	<u>FY 75</u>	<u>FY 76</u>	<u>FY 77</u>	<u>FY 78</u>	<u>FY 79</u>	<u>FY 80</u>	<u>FY 81</u>	<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>
<u>Army</u>											
	Active	5,235	5,219	4,720	4,777	4,776	4,741	4,636	4,850	4,566	4,673
	Nat'l. Guard	2	15	34	46	47	42	44	49	44	44
	Reserve	149	135	128	1	3	5	4	4	8	7
<u>Navy</u>											
	Active	6,791	6,468	6,072	5,769	5,873	5,661	6,389	6,498	6,843	7,007
	Reserve	126	100	35	30	35	29	12	31	13	-
<u>Marine Corps</u>											
	Active	486	434	359	388	269	249	268	281	308	248
	Reserve	319	293	301	313	309	224	264	309	329	329
<u>Air Force</u>											
	Active	5,797	5,255	5,008	5,320	5,816	6,032	5,776	6,050	6,290	6,610
	Nat'l. Guard	-	-	-	-	-	-	-	-	-	-
	Reserve	4	2	1	2	8	10	13	12	29	30
<u>DoD</u>											
	Active	18,309	17,376	16,159	16,254	16,734	16,683	17,069	17,679	18,007	18,338
	Gd/Res Total	600	545	499	392	402	310	337	405	423	410
<u>DoD Total</u>		18,909	17,921	16,658	16,646	17,136	16,993	17,406	18,084	18,430	18,748

### Excluded ROTC and Health Professions Acquisition Programs

The total loads above do not include two types of Officer Acquisition Training: the Army, Navy, and Air Force Reserve Officers Training Corps (ROTC) programs and the Armed Forces Health Professions Scholarship program. ROTC and Health Professions Scholarship students are not in active military status, whereas students who make up the training loads discussed in this report are either members of the active forces or members of the Reserve Components being trained on active duty by the active establishments. Although these two programs are not included in the requested training loads, they are discussed in this chapter to provide a complete account of Officer Acquisition Training. The following tables show the number of participants in these programs in the period FY 1982 through 1984.

#### Average Enrollees, ROTC Programs, FY 1982-84

<u>Service</u>	<u>FY 1982</u>	<u>FY 1983</u>	<u>FY 1984</u>
Army	70,347	73,282	79,694
Navy	8,275	9,200	9,880
Air Force	<u>23,703</u>	<u>24,065</u>	<u>24,877</u>
DoD Total	102,325	106,547	114,451

#### Health Professions Scholarships, FY 1982-84

	<u>FY 1982</u>	<u>FY 1983</u>	<u>FY 1984</u>
Army	1,722	1,600	1,600
Navy	1,420	1,475	1,475
Air Force	<u>1,591</u>	<u>1,550</u>	<u>1,550</u>
DoD Total	4,733	4,625	4,625

The figures shown above for Health Professions Scholarships are actuals for FY 1982; the FY 1983 and 1984 figures are those currently authorized by DoD to each Service from the total of 5,000 authorized scholarships.

Junior ROTC is a program designed to develop leadership qualities, good citizenship, and an understanding of the basic elements of national security among high school students. Despite its name, it is not an officer acquisition program, since it does not result in a commission and its participants have no military obligation whatsoever. Junior ROTC is not included within training loads covered by this report.

### Officer Requirements and Structuring the Officer Acquisition Program

Requirements for new officers, like requirements for new enlisted personnel, are a product of the need for officers in the projected force

as compared to the projected future inventory of officers. Properly functioning programs fill the gross requirements for officer entrants for any given year, and provide an even flow of sufficient new officers to each Service to avoid the emergence of unmanageable shortages and overages by age and grade in the future. Each of the Services uses a mix of sources for new officers.

The mix of officer acquisition programs used must recognize the characteristics of each source. Some of the differing characteristics of current programs are stable input, long lead-time; flexible inputs, short lead-time; high academic quality with comprehensive military indoctrination; and high level of technical skill. Additionally, consideration must be given to each program's ability to attract applicants, the quality of the graduates, and their probable retention and attrition. These differences and others must be recognized and exploited in planning officer procurement.

The Service Academies present a long lead-time program that produces a significant proportion of highly trained career military officers.

ROTC is also a long lead-time program and provides the largest single input of officers to the active duty force, although many of these officers will leave active duty and join the reserve components. In this manner, ROTC provides officers to support the total force, both active and reserve.

Officer Candidate Schools provide the short lead-time commissioning source necessary to respond to immediate surges in officer requirements, since the program can be expanded or reduced in a relatively short period of time.

The off-campus commissioning programs, such as the Marine Corps Platoon Leader Corps (PLC) program, are long lead-time programs, and provide the student at virtually any four-year college or university the opportunity to earn a commission through summer training but without military responsibilities during the school year. Finally, Other Enlisted Commissioning Programs are long lead-time in nature, and provide a source of officers who possess specific technical skills and who have a proven high rate of retention.

In addition to these reasons for using a variety of sources to satisfy officer requirements, it is also desirable to use different sources to keep the officer corps from being restricted to a narrow segment of the national population and to provide opportunities for highly qualified enlisted personnel.

Officer Acquisition Training may be divided into six separate programs:

Service Academies  
ROTC  
Officer Candidate Schools  
Off-Campus Commissioning Programs  
Enlisted Commissioning Programs  
Health Professions Acquisition Programs

#### Service Academies

The mission of each of the Service Academies (United States Military Academy, United States Naval Academy and United States Air Force Academy) is to meet a portion of the long-range requirement for career military officers. They provide instruction and experience to each cadet or midshipman so that he or she graduates with the knowledge and character essential to leadership and with the motivation to become a career officer. Cadets and midshipmen participate in a four-year program of academic studies and training in leadership and other military subjects. Successful completion of the specified academic and military requirements entitles the graduate to a Bachelor of Science degree and a Regular commission in one of the Military Services. Up to one-sixth of Naval Academy graduates in each year may be commissioned in the Marine Corps.

The Service Academies are distinctive among the collegiate institutions of the nation in that their curricula are specifically designed to prepare young men and women for service as professional officers. The total curriculum at each Academy is designed to develop the qualities of character, intellect, and physical competence needed by the officer who may, in the course of a full career, be called upon to perform duties ranging from leading a small combat unit to advising the highest government councils. The programs include the sciences, the humanities, and military and physical training, and form the basis for further professional development or, when required, graduate education.

The enrollment of each of the Service Academies is established by law. This fact establishes stable training loads for the Academies. Training load data for the Service Academies are shown in the following table:

Training Inputs, Outputs, Loads, Service Academies, FY 1982-84					
Service	FY 82	FY 83	FY 84		
Component	Load	Load	Input	Output	Load
Army	4,150	4,037	1,465	968	4,136
Navy	4,609	4,616	1,611	1,180	4,605
Air Force	4,273	4,261	1,510	1,009	4,138
DoD Total	13,032	12,914	4,586	3,154	12,879

Each of the Military Departments sponsors an Academy preparatory school. Marine Corps personnel attend the Navy school. The missions of these schools are to provide intensive instruction and guidance, in courses of instruction approximating one academic year, to selected enlisted personnel in preparation for entry to the Service Academies. Students compete for appointments by the Secretaries of the Military Departments and from other sources. The Naval Academy Preparatory School also provides instruction to candidates for the Marine Corps Enlisted Commissioning Education Program during the summer months.

Training Inputs, Outputs, Loads,  
Academy Preparatory Schools, FY 1982-84

<u>Service</u>	<u>FY 82</u> <u>Load</u>	<u>FY 83</u> <u>Load</u>	<u>FY 84</u> <u>Input</u>	<u>Output</u>	<u>Load</u>
Army	283	276	330	222	276
Navy	209	230	300	200	230
USMC	7	13	20	12	13
Air Force	<u>203</u>	<u>197</u>	<u>266</u>	<u>166</u>	<u>197</u>
DoD Total	702	716	916	600	716

ROTC Programs

ROTC is a long lead-time program which is the single largest source of officers for the Armed Forces. Like the Service Academies, ROTC is used to provide a relatively constant input of officers for active duty, but ROTC also provides non-career officers as well as career officers. The program is currently conducted at over five hundred civilian colleges and universities throughout the nation. The Army, Navy, and Air Force each sponsor an ROTC program; up to one-sixth of the Navy graduates may be commissioned in the Marine Corps. Scholarships and subsistence allowances authorized by law, in addition to conventional recruiting and advertising methods, are used to attract qualified students. Scholarships are awarded to young men and women who exhibit potential ability and interest in fields of projected Service needs.

There are both scholarship and non-scholarship, as well as two-year and four-year, ROTC programs. The curriculum of each program is tailored to the needs of the individual Services. For example, the Navy teaches the basics of ship navigation, while the Army teaches the fundamentals of ground combat and the Air Force provides some basic instruction in aerospace history and doctrine. Each of the programs includes instruction in leadership, military customs and military history, and each program provides prospective officers with a gradual transition from the

civilian environment to the military environment. Each ROTC program consists of a series of regularly scheduled academic classes throughout the school year combined with mandatory summer camps or cruises which are designed to give the student realistic military experience and a first-hand view of military life.

The ROTC scholarship continues to be an important incentive to attract exceptionally qualified individuals to ROTC. The rising cost of education makes the scholarship even more attractive. The Congress increased the number of ROTC scholarships from 19,000 in FY 1979 to 29,500 authorized scholarships in FY 1982. The Army offered 6,000 scholarships in 1979; the 96th Congress authorized 5,500 additional Army ROTC scholarships in FY 1981 for a total of 12,000. In FY 1981, the Congress authorized the Navy 2,000 additional scholarships for a total of 8,000. The Air Force was authorized 3,000 additional scholarships for a total of 9,500. Both the Navy and the Air Force plan to phase in the awards at the rate of 500 additional awards a year until the authorized level is reached in FY 1987.

The ROTC program is being expanded through the establishment of more host institutions and new extension centers. Students at an extension center participate in the ROTC unit of a larger host institution. This practice extends the ROTC option to students attending the numerous small colleges and universities not large enough in themselves to support a viable ROTC unit. In FY 1980 the Army expanded its program by establishing 41 new extension centers. An additional 48 Army ROTC extension centers and eight new host institutions were established in FY 1981. By the end of FY 1983 sixteen of the most productive extension centers will have been elevated to host institution status for a total of 315 Army ROTC hosts, up from 303 host institution in FY 1981. The Navy plans three additional host institutions for a total of 58, and the Air Force plans ten additional units for a total of 153 AFROTC host institutions, in FY 1983.

The FY 1979 Defense Appropriations Act tasked the Department of Defense to review the criteria for evaluating the performance of Reserve Officers Training Corps (ROTC) units and for phasing out units that have failed to provide an adequate return for the resources invested. In FY 1980, the Congress directed scholarship recipients complete this education and serve on active duty or repay the cost of their education. A revised Department of Defense directive giving uniform guidance on the viability of ROTC units and on the payback provision became effective in February 1982.

As noted at the beginning of this chapter, the ROTC program is not included in Service training loads because the students are not in an active military status. The following table shows the three Service ROTC programs for FY 1984.

ROTC Programs in FY 1984

<u>Service</u>	<u>Beginning Enrollments</u>	<u>Graduates</u>	<u>Average Enrollments</u>	<u>Average Number of Scholarship Enrollees</u>
Army	80,695	8,975	79,694	11,757
Navy	9,260	1,400	9,880	7,165
Air Force	<u>26,334</u>	<u>3,388</u>	<u>24,877</u>	<u>7,777</u>
DoD Total	116,289	17,763	114,451	26,699

Off-Campus Commissioning Programs

Officer Acquisition Training programs in which college students participate but which are conducted off the college campus are the Navy's Aviation Reserve Officer Candidate (AVROC) program and the Marine Corps Platoon Leaders Class (PLC). These programs provide for enlistment as a Naval or Marine Corps Reservist while the student is still an undergraduate and require participation in summer military training. The AVROC Program will end in FY 83 and no more students will be enrolled. The following paragraphs describe only the PLC program.

Students participating in this program attend either one or two summer training sessions, depending upon when, during their college career, they were enrolled. The objective of the program is to indoctrinate, motivate, and train the enrollees by providing instruction in basic military subjects, leadership, and physical training. PLC students are commissioned when their college degrees are conferred; the newly commissioned officers then attend the Marine Corps Officer Basic Course.

In conformance with the nature of this program, the training loads in the following table are based only on the time spent in summer training. Loads, consequently, are low as compared to inputs and outputs.

Training Inputs, Outputs, Loads,  
Off-Campus Commissioning Programs  
FY 1982-84

<u>Service</u> <u>Component</u>	<u>FY 82</u> <u>Load</u>	<u>FY 83</u> <u>Load</u>	<u>Input</u>	<u>FY 84</u> <u>Output</u>	<u>Load</u>
<u>Naval Reserve</u> AVROC	31	13	-	-	-*
<u>USMC Reserve</u> PLC	<u>309</u>	<u>329</u>	<u>2,930</u>	<u>2,370</u>	<u>329</u>
DoD Total	340	342	2,930	2,370	329

\* The Navy's Aviation Reserve Officer Candidate (AVROC) program will be terminated after FY 83.

Officer Candidate Schools (OCS)

Each of the Military Services operates an Officer Candidate School. The Air Force school is entitled Officer Training School (OTS).

Enlisted members can use this route to "rise from the ranks". The existence of OCS programs, and the other enlisted commissioning programs covered in the next section, is therefore a significant advancement incentive to ambitious and promising enlisted personnel.

The four Services offer direct entry into OCS to selected college graduates without previous enlisted service. Some college students in highly specialized academic disciplines, such as engineering and physical sciences, feel that they cannot afford the time required to participate in ROTC; OCS allows a way to a commission for these persons and, as well, for other well-qualified persons who choose to become officers after graduation from college.

The following table shows the lengths of the various courses.



Course Lengths, Officer Candidate Schools

<u>Service</u> <u>Course</u>	<u>Course Length (Weeks)</u>
<u>Army</u>	
OCS: Active	11.5
Reserve	9
<u>Navy</u>	
OCS	16
<u>Marine Corps</u>	
OCS	10
<u>Air Force</u>	
OTS	12

Load data for OCS programs are shown in the following table.

Training Inputs, Outputs, Loads,  
Officer Candidate Schools  
FY 1982-84

<u>Service</u> <u>Component</u>	<u>FY 82</u> <u>Load</u>	<u>FY 83</u> <u>Load</u>	<u>Input</u>	<u>FY 84</u> <u>Output</u>	<u>Load</u>
<u>Army</u>					
Active	253	253	1000	811	253
Reserve	4	8	46	38	7
Guard	49	44	260	218	44
<u>Navy</u>					
Active	926	986	2,200	1,870	990
<u>USMC</u>					
Active	174	186	793	487	124
<u>Air Force</u>					
Active	731	764	4,847	3,816	1,050
Reserve	12	29	131	118	30
<u>DoD</u>					
Active	2,084	2,189	8,840	6,984	2,417
Res/Gd Total	<u>65</u>	<u>81</u>	<u>437</u>	<u>374</u>	<u>81</u>
<u>DoD Total</u>	<u>2,149</u>	<u>2,270</u>	<u>9,277</u>	<u>7,358</u>	<u>2,498</u>

### Other Enlisted Commissioning Programs

The Air Force, Navy, and Marine Corps each have enlisted commissioning programs in addition to Officer Candidate courses. The purposes of these programs are: (1) to provide a source of officers in specific skills with an expected high rate of retention; (2) to provide an avenue whereby enlisted personnel with proven qualifications can augment the commissioned ranks; and (3) to provide a measure of motivation to enlisted personnel. The Navy's Enlisted Commissioning Programs now number six and have a planned training load of 1412 in FY 1984. A similar program, the Marine Enlisted Commissioning Education Program, has been expanded to offer degrees in technical and liberal arts academic disciplines. Students in the USAF Airman Education and Commissioning Program (AECF) major in engineering and computer science or physical science, with matriculation up to three years; the average academic time spent in the program is about 27 months. In all these enlisted commissioning programs, participants attend the Officer Candidate School of their Service before they are commissioned.

Both the Air Force and the Navy will continue to emphasize enlisted commissioning programs to increase officer procurement in FY 1983 and again in FY 1984. The Air Force will increase enlisted participation in the USAF Airmen Education and Commissioning Program by 25 percent between FY 1982 & FY 1984 to identify future officer candidates. The Navy is encouraging expansion in several of its enlisted commissioning programs, including BOOST, to identify potential nuclear, flight and other technically oriented officer candidates. These programs provide a reliable alternative to OCS/OTC officer accessions, and like OCS/OTS, this education carries an active duty requirement.

The following table displays load data for these programs. All participants are members of the active forces.

Training Inputs, Outputs, Loads,  
Other Enlisted Commissioning Programs, FY 1982-84

<u>Service</u>	<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>		
	<u>Load</u>	<u>Load</u>	<u>Input</u>	<u>Output</u>	<u>Load</u>
Navy	963	1,241	1,206	991	1,412
Marine Corps	100	109	85	70	111
Air Force	<u>843</u>	<u>1,050</u>	<u>750</u>	<u>680</u>	<u>1,225</u>
DoD Total	1,906	2,400	2,041	1,741	2,748

### Health Professions Acquisition Programs

This subcategory may be conveniently divided into three parts, the Armed Forces Health Professions Scholarship Program and the Uniformed

Services University of the Health Sciences Program, and "other health professions acquisition programs."

The Health Professions Scholarship Program was established in 1972 by Public Law 92-426. Participants are selected from among students, or those accepted for enrollment, in recognized health professions schools. Participants are commissioned in grade O1 in the Reserve of their parent Service, but, except for a short period of annual active duty, are not in active status. They are, therefore, not included within the training loads of their Services. Upon graduation, participants must serve obligated tours of duty, the length of which depends on the length of their participation in the program.

The program is authorized a total of 5,000 scholarships at its current level. Service data for FY 1984 is shown in the following table:

Health Professions Acquisition Program,  
Scholarships Awarded and Graduates, FY 1984

<u>Service</u>	<u>Scholarships</u>	<u>FY 1984 Graduates</u>
Army	1,295	499
Navy	1,475	491
Air Force	<u>1,550</u>	<u>432</u>
DoD Total	4,320	1,422

"Other Health Professionals Acquisition Programs" include a variety of programs with the purpose of recruiting required health professionals into the Services through tuition assistance or other aid. These programs were terminated in FY 1981 since the Services were obtaining these resources through other accession programs.

An additional acquisition program for health professionals, the Uniformed Services University of the Health Sciences (USUHS), began operation in 1976. In accordance with PL 92-426, the student body of the USUHS is composed of commissioned officers of the Uniformed Services. The first students graduated from this program in 1980.

The USUHS plans an incoming class of 156 medical students in FY 1984. This institution will, over the long term, provide approximately 25 percent of DoD's projected physician requirements. By FY 1985, the University will reach a student strength of 632 medical students. Training inputs, output and loads for this DoD school for FY 1982-1984 are shown below.

Training Inputs, Outputs, Loads, USUHS  
FY 1982-84

<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>		
<u>Load</u>	<u>Load</u>	<u>Input</u>	<u>Output</u>	<u>Load</u>
556	596	156	126	632

## SPECIALIZED SKILL TRAINING

General Description

Specialized Skill Training provides officer and enlisted personnel with skills and knowledge needed to perform specific jobs. Each Service has established a job structure that makes it possible for it to carry out its assigned missions. Each position in each organization within that job structure has been analyzed to determine the skills necessary to insure that each job is done properly and efficiently. The purpose of Specialized Skill Training is to impart these required skills to the proper number of individuals in a phased manner so that each position vacancy in the structure can be filled promptly with a qualified replacement.

Specialized Skill Training, as used in this report, is characterized by the following:

**Inclusions:** Initial, progression and functional training for both officers and enlisted personnel. Specialized Skill Training specifically includes Army Advanced Individual Training and Navy Apprenticeship Training. This training category also includes aviation-related ground training and enlisted leadership training below the level of that carried in Professional Development Education.

**Exclusions:** All Officer Acquisition Training programs, notably Officer Candidate School, formerly included in Specialized Training budget documents.

Army One-Station Unit Training (OSUT), like Specialized Skill Training, provides Army personnel with job-related training in a number of skills. However, since OSUT is conducted as one course which combines Recruit and Specialized Skill Training, it is treated separately in this report (see Chapter III), and OSUT loads are not included in the Specialized Skill Training loads in this chapter.

Specialized Skill Training loads increased by 9000 between FY 82 and FY 84. Reserve Components training loads for both the enlisted and officer corps peak in in FY 1983 and level in FY 1984. DoD wide the requirement to improve the technical skills of career personnel to keep pace with new equipment acquisition and modifications to the existing inventory will continue into the foreseeable future and this is reflected in the Specialized Skill training loads for FY 1984.

Specialized Skill Training loads for FY 1975-84 are as shown in the table on the following page. In this table and in all others included in this chapter a caveat is in order with regard to the Marine Corps training load. Prior to 1980 the Marine Corps training loads included Special Landing Forces Training. This has been and remains categorized as an operational exercise. Hence, Special Landing Forces Training is deleted from Specialized Skill Training loads to make the 1983 and 1984 data more comparable to the President's budget.

Specialized Skill Training Loads, FY 1975-84

<u>Service</u>	<u>FY 75</u>	<u>FY 76</u>	<u>FY 77</u>	<u>FY 78</u>	<u>FY 79</u>	<u>FY 80</u>	<u>FY 81</u>	<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>
<u>Component</u>										
<u>Army</u>										
<u>a/</u>										
Active	49,561	42,630	41,399	35,883	32,576	39,089	38,168	41,540	39,952	37,977
Nat'l. Guard	4,379	6,488	6,614	7,098	3,970	5,183	5,114	5,672	7,190	7,188
Reserve	2,143	3,219	4,259	3,563	2,514	3,677	5,064	6,744	7,688	6,459
<u>Navy</u>										
Active	35,165	37,117	35,227	35,933	35,973	35,874	37,738	40,748	41,914	42,228
Reserve	676	552	510	546	467	469	535	556	579	1,376
<u>Marine Corps</u>										
Active	9,981	11,117	9,877	9,442	10,560	7,624	8,527	8,361	9,361	9,877
Reserve	621	588	651	662	560	504	838	618	945	1,074
<u>Air Force</u>										
Active	26,092	26,531	25,238	22,629	20,167	21,445	23,310	22,899	23,484	26,419
Nat'l. Guard	792	1,085	1,035	1,040	912	1,031	1,256	1,181	1,730	1,736
Reserve	575	684	686	681	565	591	692	788	1,084	1,128
<u>DoD</u>										
Active	120,799	117,395	111,741	103,887	99,273	104,032	107,743	113,548	114,711	116,501
Gd/Res Total	9,186	12,616	13,755	13,590	8,987	11,455	13,499	15,559	19,216	18,961
DoD Total	129,985	130,011	125,496	117,477	108,260	115,487	121,242	129,107	133,927	135,462

a/ Data do not include Army One-Station Unit Training loads.  
b/ Prior to 1980, the Marine Corps training loads include Special Landing Forces Training operations.  
The data for FY 80-84 reflect only those training loads associated with training (Program 8) in the President's budget for FY 1984. The magnitude of the Special Landing Forces Training loads is about 2,500 per year.

As in the other types of training covered in this report, the demand placed on the training establishment for individuals with certain skills is determined by comparing projected requirements for each skill and skill level with the projected future inventory of trained service-members.

When anticipated losses are deducted from the current inventory, shortages in various skill areas are revealed. These shortages, except for those that can be satisfied through on-the-job training, or, in a few cases, through lateral entry from civilian life of individuals who already possess an employable skill, create a demand for a phased output of trained replacement personnel. Estimates are made of the portion of students in each training course who will fail to complete the course. These course attrition factors determine the inputs necessary to achieve the desired course outputs. Inputs, outputs, attrition patterns, and course lengths determine the training loads. These factors are discussed for each sub-category of Specialized Skill Training in the remainder of this chapter.

Specialized Skill Training is the most diverse of the major categories of individual training. In the interest of clarity, the full category has been divided into five sub-categories. Two are concerned with initial skill training, one for officers, the other for enlisted personnel; two others cover more advanced training, again divided by officer and enlisted. The last category covers both officer and enlisted training which, for the most part, imparts required knowledge or skills without changing the student's primary skill or skill level.

#### Initial Skill Training (Enlisted)

Initial Skill Training (Enlisted) includes all formal training normally given immediately after Recruit Training and leading toward the award of a military occupational specialty or rating at the lowest skill level. Successful completion of the training qualifies the enlisted member to take a position in the job structure of the Service and to progress, through job experience, to the journeyman level. Army One-Station Unit Training satisfies this same purpose but, because it combines the skill training with recruit training in a single course, it is treated separately in this report.

The great majority of Service recruits are drawn from the least skilled segment of the population. Most recruits are under age 21 and have little civilian job experience. In addition, some civilian specialties are not in demand in the military job structure, and many of the most important military skills have no civilian counterpart. Consequently, only a small number of people enter the Service with a skill that can be used with little or no additional training, and enlistees must be trained in a skill before they can become productive. Some skills can be acquired through experience and on-the-job training. Most, however, are most effectively and efficiently learned through

formal courses. In some situations, on board ship for example, the opportunity for on-the-job training is often limited.

Load data for Initial Skill Training (Enlisted) are displayed in the following table. The classification of this training is determined by its purpose, rather than by whether entrants attend immediately after Recruit Training. Thus some prior-service students and cross-trainees from other skill areas are reflected in these data.

Training Inputs, Outputs, Loads, Initial Skill Training (Enlisted)  
FY 1982-84

<u>Service</u>	<u>FY 82</u>	<u>FY 83</u>		<u>FY 84</u>	
<u>Component</u>	<u>Load</u>	<u>Load</u>	<u>Input</u>	<u>Output</u>	<u>Load</u>
<u>Army</u>					
Active	19,073	17,727	77,952	69,778	15,710
Reserve	4,508	4,885	23,856	21,557	3,854
Nat'l Guard	4,623	5,087	29,622	27,278	5,382
<u>Navy</u>					
Active	23,648	24,635	182,194	174,628	24,436
Reserve	372	380	11,320	10,731	1,171
<u>USMC</u>					
Active	5,690	6,291	46,139	43,095	6,560
Reserve	569	878	7,594	7,125	1,000
<u>Air Force</u>					
Active	15,732	15,238	69,267	66,983	17,739
Reserve	673	862	5,675	5,426	903
Nat'l Guard	953	1,410	7,427	6,782	1,428
<u>DoD</u>					
Active	64,143	63,891	375,552	354,484	64,445
Res/Gd Total	11,698	13,502	85,494	78,899	13,738
DoD Total	75,841	77,393	461,046	433,383	78,183

Reflecting the variety of skills required in the four Services, there are a large number of courses for enlisted personnel in Initial Skill Training, as shown in the following table:

Number of Courses, Initial Skill Training (Enlisted), FY 1984

<u>Army</u>	<u>Navy</u>	<u>Marine Corps</u>	<u>Air Force</u>
299	169	81	366



Initial Skill courses include general skills, intelligence, cryptography, and health service training. Some of these courses are in highly technical skills, such as nuclear reactor specialist or electronics technician. Others involve less complex, but not less important, skills -- cook, clerk-typist, mechanic, and vehicle driver. A sampling of courses in each Service with the most students in FY 1984 is shown in the following table.

	<u>No. of Students</u>	<u>Course Length (in days)</u>
<u>Army</u> <u>a/</u>		
Airborne	14,821	21
Basic Medical Specialist	10,214	42
Administrative Specialist	7,310	52
Motor Transport Operator	4,484	49
Tactical Wire Operations	3,788	52
Unit Supply Specialist	3,678	44
Material Storage & Handling Specialist	2,982	21
<u>Navy</u>		
Basic Electricity/Electronics	24,761	61
Apprentice Training <u>b/</u>	20,733	28
Aviation Fundamentals	16,145	11
Propulsion Engineer Basic	8,605	26
Basic Enlisted Submarine	4,226	39
<u>Marine Corps</u>		
Rifleman	6,694	28
Field Radio Operator	2,400	63
Mortarman	1,384	28
Basic Electronics	1,817	98
Antitank Assault Man	1,657	28
Administrative Clerk	1,383	56
<u>Air Force</u>		
Security Specialist	8,297	45
Administrative Support Staff Specialist	2,169	41
Inventory Management Specialist	3,598	39
Aircraft Maintenance Specialist (Tactical)	2,801	28
Aircraft Maintenance Specialist (Airlift/Bombardment)	2,742	28
Law Enforcement Specialist	2,219	46
Jet Engine Mechanic	1,892	59
Fuel Specialist	1,587	36

a/ Many of the Army high-density skills and most combat skills (armor crewman, artilleryman, etc.) are trained through One-Station Unit Training (OSUT).

b/ Apprentice Training is composed of fundamental training in one of four basic skill areas: Seaman, Fireman, Airman, Constructionman. The course length shown is the average for those four skills.

Course lengths vary widely according to the complexity of the subject matter. For example, the Air Force course for electronic computer systems specialist is 187 calendar days in length, whereas the course for pavements maintenance specialist takes only 20 days. Army nuclear power plant operators receive an entire year of training, but motor transport operators and general construction machine operators complete their training in 35 days. The Navy average is low in comparison to the others because it includes a large number of students in short courses related to particular shipboard duties and because of the predominance of the relatively short apprentice courses; in addition, Navy personnel, to a greater degree than personnel of other Services, receive supplementary formal training during their first enlistments.

In the Air Force the weighted average course length in enlisted Initial Skill Training is increased from 12.3 weeks (FY 1983) to 12.7 weeks (FY 1984), with a corresponding increase in student load. Increases are in hard technical skills such as aircraft maintenance, avionics, munitions, and digital technology. Theory and basic principles training will be restored to course curricula because of this training has been proven essential but impractical for delivery via on-the-job training (OJT).

Average Course Lengths, Initial Skill  
Training (Enlisted), FY 1984

<u>Army</u>	<u>Navy</u>	<u>Marine Corps</u>	<u>Air Force</u>
69	43	72	89.6

The final determinant of training loads is the anticipated rate of attrition. Attrition rates must be estimated for each course. The rate may be negligible for a reasonably routine course for which students entered in the course have the necessary abilities and motivation. Attrition may run much higher, up to one-third of the class entrants, in technical subjects, such as the Improved Hawk Continuous Wave Radar Repairman Specialist course. In contrast to policies governing Recruit Training, many of the students who fail to complete these courses are retrained in other skills rather than discharged. The average anticipated rates for FY 1983 and FY 1984 are as shown:

Average Attrition Rates, Initial Skill Training (Enlisted), FY 1983 and FY 1984  
(Percent)

	<u>Army</u>	<u>Navy</u>	<u>Marine Corps</u>	<u>Air Force</u>
FY 1983	9.6%	6.7%	5.9%	9.0%
FY 1984	9.8%	6.7%	6.4%	9.0%

### Skill Progression Training (Enlisted)

This sub-category covers skill training received by enlisted personnel subsequent to Initial Skill Training. Through this training, the student gains the knowledge to perform at a more skilled level or in a supervisory position. Skill Progression Training is most frequently given after the servicemember has gained experience through actual work in his or her specialty. In some cases, however, training in a relatively narrow subject area as an immediate follow-on to Initial Skill Training is included in Skill Progression Training.

Training load data for Skill Progression Training (Enlisted) are shown in the following table:

#### Training Inputs, Outputs, Loads, Skill Progression Training (Enlisted), FY 1982-84

<u>Service</u> <u>Component</u>	<u>FY 82</u> <u>Load</u>	<u>FY 83</u> <u>Load</u>	<u>FY 84</u> <u>Input</u>	<u>FY 84</u> <u>Output</u>	<u>Load</u>
<u>Army</u>					
Active	2,405	2,780	13,582	12,805	2,780
Reserve	195	426	2,350	2,186	543
Nat'l Guard	112	1,153	1,957	1,630	848
<u>Navy</u>					
Active	10,623	10,841	111,347	107,027	11,287
Reserve	19	20	601	511	21
<u>USMC</u>					
Active	1,122	1,331	8,092	7,715	1,365
Reserve	25	27	529	526	26
<u>Air Force</u>					
Active	5,684	6,390	74,621	73,011	6,577
Reserve	51	101	2,855	2,811	92
Nat'l Guard	158	219	4,173	4,123	208
<u>DoD</u>					
Active	19,834	21,342	200,254	200,558	22,009
Res/Gd Total	560	1,946	12,565	11,787	1,788
<u>DoD Total</u>	20,394	23,288	212,824	212,345	23,797

The requirement for Skill Progression Training arises from the fact that training in a skill at entry level and subsequent experience do not, in many cases, fully qualify a servicemember to do the more advanced jobs in his or her field without further formal training. Several factors may contribute, singly or in combination, to a need for additional formal training:

1. The introduction of new equipment.
2. The need to produce a higher degree of skill in a sub-specialty.
3. The need to impart a broader base of knowledge to qualify an individual for a supervisory responsibility.
4. The requirement for refresher training to bring the service-member up to date on the latest information and techniques in his or her skill.

The primary need, as in all other types of training, is to have trained individuals available to replace losses as they occur. Planning future training in this sub-category follows the same general pattern as for Initial Skill Training. Some additional complications, however, are introduced by the fact that members eligible for schooling are frequently serving overseas or on board ship, rather than flowing from the Recruit Training pipeline. This situation frequently requires that personnel receive the training when they are available, preferably between duty assignments, rather than when they might more easily be accommodated for formal school training.

The following table displays statistics in Skill Progression Training in each of the Services for FY 1984.

Skill Progression Training (Enlisted), FY 1984

	<u>Army</u>	<u>Navy</u>	<u>Marine Corps</u>	<u>Air Force</u>
Number of Courses	128	1,569	71	1,077
Average Course Lengths (Days)	60	42	91	32
Projected Attrition Rate (Percent)	7.1%	4.2%	4.6%	2.5%

The Air Force's average days in training is low compared to the other Services because of the large use of short courses. The large number of Navy and Air Force courses is a reflection of the technical nature of these Services and their large number of subspecialties. Of course, part of the difference is due to differing Service approaches to course definition and segmenting.

### Initial Skill Training (Officer)

As a general rule, Officer Acquisition Training is oriented toward the broad educational background and general military training which is considered necessary for all officers entering a Service. In consequence, most newly commissioned officers require further training for the specific type of duty they will be performing in their first duty assignment. Initial Skill Training for officers is, therefore, analogous to Initial Skill Training for enlisted personnel -- both provide the job-oriented training which, added to the military fundamentals learned earlier, prepares the individual for taking a place in the job structure.

Load data for Initial Skill Training (Officer) are displayed in the following table. The increased inputs and loads for the Air Force are driven in part by an initiative to increase officer acquisitions by bringing qualified enlisted personnel up through the ranks.

Training Inputs, Outputs, Loads, Initial Skill  
Training (Officer), FY 1982-84

<u>Service</u>	<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>		
<u>Component</u>	<u>Load</u>	<u>Load</u>	<u>Input</u>	<u>Output</u>	<u>Load</u>
<u>Army</u>					
Active	2,768	2,756	10,983	10,832	2,732
Reserve	1,107	1,176	3,608	3,564	778
Nat'l Guard	504	503	2,191	2,162	499
<u>Navy</u>					
Active	1,390	1,413	6,384	6,133	1,413
Reserve	2	5	55	54	5
<u>USMC</u>					
Active	975	1,143	3,472	3,429	1,059
Reserve	5	3	66	66	4
<u>Air Force</u>					
Active	605	785	5,715	5,605	979
Reserve	16	52	381	374	52
Nat'l Guard	40	60	493	476	56
<u>DoD</u>					
Active	5,738	6,097	26,554	25,998	6,183
Res/Gd Total	1,674	1,799	6,794	6,697	1,394
DoD Total	7,412	7,896	33,348	32,695	7,577

With minor exceptions, all newly commissioned Army officers attend officer basic courses at their branch schools -- Infantry officers at the Infantry School, Engineer officers at the Engineer School, etc. These courses average 19 weeks in length, and the officer attends before reporting to his or her first unit of assignment. In addition, certain officers are selected to attend follow-on skill or functional training courses for more specialized assignments.

All submarine and nuclear officers and most Surface Navy officers go to Initial Skill Training. The Navy provides 34 courses for officers in Initial Skill Training, with an average course length of 81.9 days.

All newly commissioned Marine Corps officers attend a basic course for general orientation and training. In addition, Marine Corps officers attend 22 Initial Skill Training courses sponsored by the Corps. They may participate in approximately 30 others conducted by the Navy or other Services. Such courses average 98 days in length and are related to specific officer jobs.

The Air Force conducts 66 Initial Skill Training courses for officers, with an average of 62 days in length; about 50 percent of newly commissioned officers attend these courses.

#### Skill Progression Training (Officer)

Skill Progression Training for officers is, in general, aimed at officers with several years of practical experience and provides them knowledge needed to assume more advanced responsibilities. For example, the Army provides advanced courses which are structured to prepare the students for battalion and brigade staff duties in addition to command responsibilities at the company and battery level. Data for Skill Progression Training (Officer) are displayed in the following table.

#### Training Inputs, Outputs, Loads, Skill Progression Training (Officer), FY 1982-84

<u>Service</u>	<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>		
<u>Component</u>	<u>Load</u>	<u>Load</u>	<u>Input</u>	<u>Output</u>	<u>Load</u>
<u>Army</u>					
Active	4,373	4,672	14,251	13,953	4,554
Reserve	270	409	2,952	2,911	418
Nat'l Guard	211	212	1,074	1,057	216
<u>Navy</u>					
Active	1,031	1,024	8,818	8,738	1,030
Reserve	14	15	420	402	15
<u>USMC</u>					
Active	189	185	1,494	1,489	198
Reserve	9	7	184	184	7
<u>Air Force</u>					
Active	603	773	14,270	14,244	837
Reserve	32	46	1,165	1,112	49
Nat'l Guard	15	20	580	570	23
<u>DoD</u>					
Active	6,196	6,654	38,833	38,424	6,619
Res/Gd Total	551	709	6,375	4,236	728
<u>DoD Total</u>	<u>6,747</u>	<u>7,363</u>	<u>45,208</u>	<u>44,660</u>	<u>7,347</u>

The Army conducts 120 courses averaging 104 days in length. The Navy maintains 140 courses, averaging 31 days in length, which cover a variety of specialized duties that are typically performed by officers with several years of service -- for example, destroyer officer course, aviation maintenance officer course, and nuclear propulsion plant course.

Both the Marine Corps and the Air Force conduct broad courses for officers at about the same level as the Army's advanced courses; however, as these are Service-wide and uniform in content, they are carried in Professional Development Education. Within Skill Progression Training, Marine Corps officers attend 16 courses sponsored by the Corps. They also utilize the course offerings of the other Services. The Air Force has 498 courses, averaging 21 days each, for the purpose of training officers in new duties required by their prospective assignments.

Attrition from the Skill Progression courses for officers is significantly lower than for enlisted training or initial skill officer training. Attrition of one to two percent is typical of such courses.

#### Functional Training (Officer and Enlisted)

Functional Training is an "all other" sub-category covering those types of required training that do not fit neatly into the definitions of the other sub-categories. By and large, Functional Training is in subject areas that cut across the scope of military occupational specialties and provides additional required skills without changing the student's primary speciality or skill level. An example is a Damage Control Course conducted by the Navy. Both officers and enlisted personnel participate in Functional Training. Load data for Functional Training are shown in the following table.



Training Inputs, Outputs, Loads, Functional Training,  
(Officer and Enlisted) FY 1982-84

<u>Service</u>	<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>		
<u>Component</u>	<u>Load</u>	<u>Load</u>	<u>Input</u>	<u>Output</u>	<u>Load</u>
<u>Army</u>					
Active	12,921	12,017	121,979	109,515	12,201
Reserve	664	792	9,363	8,223	866
Nat'l Guard	222	235	2,905	2,772	193
<u>Navy</u>					
Active	4,056	4,001	337,979	326,452	4,062
Reserve	149	159	13,669	13,635	164
<u>USMC</u>					
Active	607	677	7,915	7,147	695
Reserve	18	36	966	947	37
<u>Air Force</u>					
Active	275	288	9,978	9,884	287
Reserve	16	23	1,117	1,109	32
Natl Guard	13	21	726	219	21
<u>DoD</u>					
Active	17,859	16,993	477,851	452,498	17,245
Res/Gd Total	1,082	1,266	28,746	22,405	1,313
DoD Total	18,941	18,259	506,597	480,388	18,558

Army Functional Training includes the airborne, ranger, and special forces qualification courses, many specialized NCO supervision courses, language training, and a number of courses related to specialized equipment (e.g., Satellite Communication Operation and Maintenance; 8-inch Atomic Projectile Assembly).

Navy Functional Training differs from that of the other Services because of the very high input to a large number of very short courses. Most of the training consists of in-port training for ships' crews, and includes the following types of activity:

1. Shore training for shipboard teams (firefighting, damage control, anti-submarine warfare, etc.).
2. Short basic or refresher courses at fleet training centers in the operation of equipment or systems.
3. Shipboard in-port training assistance.
4. Precommissioning training for newly formed crews of ships under construction.

Marine Corps Functional Training provides skills required for specific jobs but not limited to a primary occupational specialty. Some of the included courses are scuba training, sea duty indoctrination, and drill instructor training.

All Air Force Functional Training is survival training related to various environments: water, arctic, jungle, or tropic. This course trains air crews the skills for long-term combat survival and survival in chemical, biological, and radiological contaminated environments.

The following table provides additional statistics on Functional Training.

Courses and Course Lengths, Functional Training, FY 1984

	<u>Army</u>	<u>Navy</u>	<u>Marine Corps</u>	<u>Air Force</u>
Number of Courses	688	972	36	8
Average Course Length (Days)	26	4	26	10

## VI

### FLIGHT TRAINING

#### General Description

Flight Training programs provide basic flying skills required prior to operational assignment of pilots, navigators, and naval flight officers. Most of the training in this category is undergraduate flight training; at the conclusion of this training, a graduate is awarded "wings" and is classified as a "designated" or "rated" officer. Flight Training includes programs for pilots of all Services, navigators in the Air Force, and naval flight officers in the Navy and Marine Corps. Pilot training may be in jet or propeller-driven fixed-wing aircraft, or in helicopters. Some related advanced flight training, such as Army instructor pilot training and Air Force navigator/bombardier and electronic warfare training, is also included in Flight Training. Enlisted programs in aviation-related subjects (for example, in air traffic control) and Air Force survival training are in Specialized Skill Training. Marine Corps enlisted navigator training is included in Flight Training.

Flight Training loads, by Service and component, for Fiscal Years 1975 through 1984 are shown in the following table:

Total Flight Training Loads, FY 1975-84

<u>Service</u> <u>Component</u>	<u>FY 75</u>	<u>FY 76</u>	<u>FY 77</u>	<u>FY 78</u>	<u>FY 79</u>	<u>FY 80</u>	<u>FY 81</u>	<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>
<u>Army</u>										
Active	712	709	623	724	813	1,204	1,204	1,197	1,326	1,366
Natl Guard	40	28	35	72	89	80	44	86	161	186
Reserve	10	10	15	42	49	31	87	46	88	85
<u>Navy</u>										
Active	1,495	1,442	1,335	1,287	1,065	1,253	1,614	1,993	1,849	1,836
<u>USMC</u>										
Active	599	563	658	692	859	790	692	676	680	674
<u>Air Force</u>										
Active	3,071	2,068	1,978	1,723	2,025	2,467	2,688	3,117	3,147	3,083
Natl Guard	127	90	97	94	128	128	61	244	263	261
Reserve	38	35	30	34	37	51	161	52	86	99
<u>DoD</u>										
Active	5,877	4,782	4,594	4,426	4,762	5,714	6,198	6,983	7,002	6,959
Res/Gd Tot	<u>270</u>	<u>215</u>	<u>163</u>	<u>177</u>	<u>242</u>	<u>303</u>	<u>353</u>	<u>428</u>	<u>598</u>	<u>631</u>
DoD Total	6,092	4,945	4,771	4,668	5,065	6,004	6,551	7,411	7,600	7,590

The Service trends for flight training in FY 1984 call for sustaining the higher rates of pilot and navigator training initiated in FY 1982. The higher rates reflect an ongoing effort to return pilot and crew inventories to long-term sustainable levels, levels which in the recent past were adversely affected by several years of unexpectedly high attrition rates for aviators. More undergraduate helicopter pilot training for the Army's active and reserve components is planned. This responds the increases in the Army's flying unit force structure.

For purposes of clarity, the following discussion of aviation training is divided into three sections -- Undergraduate Pilot Training, Navigator Training, and Other Flight Training, each treating a subcategory of Flight Training.

#### Undergraduate Pilot Training

The purpose of Undergraduate Pilot Training is to qualify students to perform the basic duties and assume the responsibilities of military pilots. Courses include sufficient flying training to allow the student to attain proficiency in the general class of aircraft (jet, prop, or helicopter) he/she will be flying in future assignments. Training through flying or in flight simulators is augmented by flight-related ground training and, ordinarily, some officer professional development training to prepare the student for the responsibilities of a junior officer. For the Army, which uses a large number of warrant officer pilots, enlisted entrants undergo warrant officer candidate training before entering flight phases of training; they receive their warrants upon graduation from flight training. A minority of Army flight training students are already commissioned officers upon entry. The Navy also conducts Navy officer training for aviation officer candidates concurrently with the early phases of flight training.

Training data for FY 1982-84 are displayed in the following table:

Training Inputs, Outputs, Loads, Undergraduate  
Pilot Training, FY 1982-84

<u>Service</u> <u>Component</u>	<u>FY 82</u> <u>Load</u>	<u>FY 83</u> <u>Load</u>	<u>FY 84</u> <u>Input</u>	<u>Output</u>	<u>Load</u>
<u>Army</u>					
Active	999	1,117	3,555	3,239	1,151
Reserve	30	68	202	183	65
Natl Guard	60	110	419	387	135
<u>Navy</u>					
Active	1,318	1,213	1,475	1,010	1,192
<u>USMC</u>					
Active	638	638	680	500	638
<u>Air Force</u>					
Active	2,072	2,039	2,437	2,000	2,028
Reserve	45	68	97	75	82
Natl Guard	158	179	211	180	176
<u>DoD</u>					
Active	5,027	5,017	8,147	6,749	5,009
Res/Gd Tot	<u>293</u>	<u>425</u>	<u>929</u>	<u>825</u>	<u>458</u>
DoD Total	5,320	5,442	9,076	7,574	5,467

Load data for each Service for undergraduate helicopter pilot training are shown below.

Training Inputs, Outputs, Loads, Undergraduate  
Helicopter Pilot Training, FY 1982-84

<u>Service</u>	<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>		
<u>Component</u>	<u>Load</u>	<u>Load</u>	<u>Input</u>	<u>Output</u>	<u>Load</u>
<u>Army</u>					
Active	999	1,117	3,555	3,239	1,151
Reserve	30	68	202	183	65
Natl Guard	60	110	419	387	135
<u>Navy</u>					
Active	347	268	386	270	271
<u>USMC</u>					
Active	263	278	344	260	278
<u>Air Force</u>					
Active	71	76	111	80	70
Reserve	-	-	-	-	-
Natl Guard	2	2	3	3	2
<u>DoD</u>					
Active	1,680	1,739	4,396	3,849	1,770
Res/Gd Tot	92	180	624	573	202
<u>DoD Total</u>	<u>1,772</u>	<u>1,919</u>	<u>5,020</u>	<u>4,422</u>	<u>1,972</u>

The following table shows programmed course lengths and projected attrition rates for the Army undergraduate helicopter pilot training program.

Course Length and Attrition Rates, Army Undergraduate  
Helicopter Pilot Training  
FY 1984

	<u>Commissioned</u>	<u>Warrant Officer Candidates</u>	
	<u>Officers</u>	<u>Officer Training</u>	<u>Flight</u>
Course Length (weeks)	34.4	6	34
Attrition Rate	10%	13%	16%

The Army course is six weeks longer for warrant officer candidates than for commissioned officers, since the course also serves as a warrant officer candidate school.

Navy Undergraduate Pilot Training begins with a common core of basic ground training and primary flight training and then diverges according to whether the student is to be qualified in jet aircraft, propeller aircraft or helicopters. The basic ground phase, or environmental indoctrination phase, is four weeks in length for officer students and 12 weeks for

aviation officer candidates, since this phase also serves as an officer training period for the latter group.

The following table shows course lengths, attrition rates, and type of aircraft used for training for each phase of the syllabus:

Course Phasing, Navy/Marine Corps  
Undergraduate Pilot Training, FY 84

<u>Course/Phase</u>	<u>Course Length (Weeks)</u>	<u>Attrition Rate (Percent)</u>	<u>Type Aircraft</u>
Commissioned Officers			
Aviation Pre-flight Indoctrination	6	8%	----
Aviation Officer Candidates	14 a/	15%	----
Primary Training			
Jet	19.5	15%	T34C
Prop	19.5	15%	T34C
Helo	19.5	15%	T34C
Strike Training (Jet)			
Intermediate Jet	23.6	8%	T2C
Advanced Jet	20.4	4%	TA4J
Maritime Training (Prop)			
Intermediate Prop	5	1.5%	T34C
Advanced Prop	18.4	3%	T44A
Helicopter Training			
Intermediate Helo	5	1.5%	T34C
Transition Helo	5	1.5%	TH57A
Advanced Helo	11	3.0%	TH57

a/ Includes 6 weeks Aviation Pre-flight Indoctrination.

Because of the task requirements which dictate variations in course content, the standard Undergraduate Pilot Training course is as short as 47 weeks for an officer student qualifying in helicopters or as long as 78 weeks for an aviation officer candidate qualifying in jets. Actual course duration may be longer because of unforeseen circumstances such as major aircraft groundings, fuel shortages, or inclement weather.

The changes in duration for various phases of Undergraduate Pilot Training are the result of full implementation of the Navy Integrated Flight Training System (NIFTS). Complete implementation of the NIFTS syllabi was not possible until FY 83 due in part to slippages in the delivery of flight simulators.



The following table displays load data for Navy and Marine Corps Undergraduate Pilot Training. All participants are in the active force.

Training Inputs, Outputs, Loads, Navy/Marine Corps  
Undergraduate Pilot Training, FY 1982-84

<u>Service</u>	<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>		
	<u>Load</u>	<u>Load</u>	<u>Input</u>	<u>Output</u>	<u>Load</u>
<u>Navy</u>					
Jet	585	563	565	371	534
Prop	386	392	524	369	387
Helo	347	268	386	270	271
<u>USMC</u>					
Jet	340	328	298	210	328
Prop	35	32	38	30	32
Helo	263	278	344	260	278

The final program of Undergraduate Pilot Training is Air Force training of jet pilots. All Air Force pilots, except helicopter pilots trained in the Army program, are trained in this all-jet program. The standard course length is 49 weeks. Forecast attrition for FY 1984 is 19.0 percent, not including that which occurs in the flight screening of the Flight Familiarization Training program. Load data are shown in the following table:

Training Inputs, Outputs, Loads, Air Force Undergraduate  
Jet Pilot Training, FY 1982-84

	<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>		
	<u>Load</u>	<u>Load</u>	<u>Input</u>	<u>Output</u>	<u>Load</u>
Active	2,001	1,963	2,326	1,920	1,958
Reserve	45	68	97	75	82
Natl Guard	156	177	208	177	174
Total	2,202	2,208	2,631	2,172	2,214

At the conclusion of Undergraduate Pilot Training, the new pilot is capable of operating an aircraft in such a manner that future training required, in order to accomplish a specific mission, is limited to advanced flight training in aircraft used in operational units and training in the employment of applicable mission weapon systems.

Undergraduate Navigator Training

The Navy trains Navy and Marine Corps personnel to become Naval Flight Officers. The Air Force trains its personnel as navigators. The duties of Naval Flight Officers and Air Force navigators are not precisely the same because of mission differences. But at the undergraduate level, they are sufficiently similar that they are referred to collectively in this report as "navigators". (The Army does not train or use navigators.)

The Undergraduate Naval Flight Officer (NFO) training program is a building block training program. The training commences with aviation Pre-flight Indoctrination (5 weeks for officers) or Officer Candidate School (13 weeks for officer candidates) where the student is provided basic aeronautical and aviation physiological foundation knowledge. After completing this phase, the student enters the Basic phase. This 15 week course provides the student with the basic skills and knowledge needed to safely navigate, communicate, manage aircraft systems, and to describe two-plane formation maneuvers. Successful completion of Basic qualifies students for entrance into Interservice Undergraduate Navigation Training (22 weeks) conducted at Mather AFB, California (described in a later paragraph), or the Navy intermediate phase. The intermediate phase (7 weeks) expands the knowledge gained in Basic and requires higher skill and performance standards. Practical flight skills are developed in the ID23 computerized navigation/communications training device and the 2F101 simulators, the T-2C aircraft for jet acclimatization and high-speed navigation and the T-39 aircraft for jet instrument navigation. After successful attainment of the performance standards, the students proceed to one of the following advanced naval flight officer training phases which provides specific skills and knowledge: Radar Intercept Officer (17 weeks), Tactical Navigation (11 weeks), Overwater Jet Navigation (10.8 weeks), and Airborne Tactical Data Systems Officer (21 weeks).

The Air Force program consists of a 28 week basic course that includes 401 hours of academic instruction, 64 hours of flight simulator training, 68 hours of actual flight instruction in the T-43 aircraft, and 9.1 hours in the T-37 aircraft. After the basic course, a bomber, tanker, or cargo aircraft assignee continues training in the four-week Advanced Navigator Course which provides 26 simulator hours, and 20 flying hours in the T-43. A fighter or reconnaissance aircraft assignee receives an additional 10 hours of flight simulator training and 11.7 flying hours in the T-37 while attending the five-week Tactical Navigator Course.

The advanced segment of Undergraduate Navigator Training for Naval Flight Officers destined for the anti-submarine warfare community was merged into the Air Force program at Mather Air Force Base in California in 1976. Of the program described above, Naval Flight Officers receive 318 hours of academic instruction, 76 hours of simulator training and 80 hours of flight instruction in the T-43 aircraft during 22 weeks of training.

Undergraduate Navigator Training provides sufficient skills and knowledge so that further training for the newly rated navigator can be limited to advanced flight training in operational aircraft and training in employment of applicable weapon systems. Training load data for Undergraduate Navigator Training are shown in the following table:

Training Inputs, Outputs, Loads, Undergraduate  
Navigator Training, FY 1982-84

<u>Service</u> <u>Component</u>	<u>FY 82</u> <u>Load</u>	<u>FY 83</u> <u>Load</u>	<u>FY 84</u> <u>Input</u>	<u>Output</u>	<u>Load</u>
<u>Navy</u>					
Active	527	443	799	519	446
<u>USMC</u>					
Active	38	42	- 52	34	36
<u>Air Force</u>					
Active	650	646	1,771	1,649	599
Reserve	7	15	44	40	15
Natl Guard	78	74	234	220	75
<u>DoD</u>					
Active	1,215	1,131	2,622	2,202	1,081
Res/Gd Tot	<u>85</u>	<u>89</u>	<u>278</u>	<u>280</u>	<u>90</u>
DoD Total	1,300	1,220	2,900	2,482	1,171

Other Flight Training

This category covers miscellaneous other types of flight training, including advanced flight training, flight familiarization, and other flight programs not previously included in undergraduate pilot or navigator training. Load data are displayed in the following table:

Training Inputs, Outputs, Loads  
Advanced, Familiarization, and Other Flight Training, FY 1982-84

<u>Service</u> <u>Component</u>	<u>FY 82</u> <u>Load</u>	<u>FY 83</u> <u>Load</u>	<u>FY 84</u> <u>Input</u>	<u>Output</u>	<u>Load</u>
<u>Army</u>					
Active	198	209	2,976	2,976	215
Reserve	16	20	209	151	20
Natl Guard	26	51	334	319	51
<u>Navy</u>					
Active	148	183	4,567	4,567	198
<u>Air Force</u>					
Active	395	462	2,584	2,366	456
Reserve	0	3	13	11	2
Natl Guard	8	10	130	119	10
<u>DoD</u>					
Active	741	854	10,127	9,909	867
Res/Gd Tot	<u>50</u>	<u>84</u>	<u>686</u>	<u>673</u>	<u>83</u>
DoD Total	791	938	10,813	10,582	952

The Army includes in this category courses for instructor pilots and specific pilot qualification courses in various aircraft. Most of the courses are short, in the range of two to seven weeks.

The Air Force conducts a separate 22-day flight screening program for candidates for Undergraduate Pilot Training who have not had previous flight familiarization training. The resulting student loads are included in Other Flight Training. Similar training is provided to Air Force flight surgeons, most Air Force Academy cadets, some Air Force ROTC cadets, and a limited number of cadets and midshipmen from the Military and Naval Academies. The associated workload is included in the Service Academy loads and in ROTC enrollment figures.

Navy load includes training for instructor pilots, academic flight instructors, and leadership training given to recent flight training graduates. It excludes postgraduate flight training conducted by operational commanders and flight familiarization. This is the first year Navy has reported a load in this category.

The Air Force Other Flight Training workload is limited largely to instructor courses for pilots and navigators and some specialized courses conducted by the Air Training Command in such fields as electronic warfare. Most Air Force postgraduate flight training is conducted under operational command auspices.

In each of the Services, graduates of undergraduate pilot and undergraduate navigator training receive supplementary training in the specific aircraft they will be flying on operational missions. Emphasis is placed on crew training and performance under conditions that would be encountered in combat. In the Army most of this training is provided as part of normal unit training by the operational unit to which the new pilot is assigned. In the other Services, this additional training is provided by Navy fleet readiness squadrons, Marine combat crew readiness training squadrons, and Air Force combat crew training squadrons. As an exception, centrally conducted Army advanced flight training loads are included within Other Flight Training loads. However, most such training is classified as "crew and unit training" by the Navy, Marine Corps and Air Force and is not included in the loads of this report.

#### Determination of Requirements for Rated Officers

Flight Training rates are developed by comparing projections of future requirements for rated officers with projections of the future status of inventories of both reserve and active duty rated officers. Consideration is given to the need to have sufficient active duty aviators on hand, in appropriate grades. Requirements for rated officers include both the numbers needed to man the force in peacetime and the additional increment needed under approved mobilization scenarios to man and sustain the force when war breaks out. For analytical purposes, aviator requirements are divided into two parts: unit and individuals. Requirements for aviators for each of these categories are computed to meet both (1) peacetime needs and (2) wartime mobilization needs under approved mobilization scenarios.

Unit requirements represent the number of rated officers needed to carry out operational, training, and management activities for programmed units. Each such authorized position (that is, military space or billet) requires a rated officer as an incumbent in order to carry out the functions of the job, either because the job involves flying duties (i.e., "operational flying" positions as defined for purposes of the Aviation Career Incentive Act of 1974) or requires flying experience. Other positions that may be occupied by rated officers for career broadening or similar purposes, but that do not require rated officer incumbents for accomplishing the duties, are not included. Unit requirements have three subcomponents: force, training, and supervision.

Force requirements are the positions required to man and operate the Services' force aircraft. The number of force positions is a product of established crew ratios, or the number of crews per aircraft, which in turn take into account workload (flying hour) and readiness factors and the amount of mission flying and unit flight training that is necessary.

Training positions include the flyers who are conducting formal flight training.

The supervision component is made up of officer positions entailing actual supervision of flying and flight-related activities and the performance of staff jobs which require the expertise of a rated officer. These positions are subject to continuous scrutiny to assure that rated requirements are valid.

Individual requirements include the transients, students and other individuals needed to make it possible to provide for reasonable manning of positions in units.

#### Rated Officer Inventory Projections

Projecting rated officer inventories into the future must be based on historical experience, current judgment, and an appraisal of how the officers will react to conditions in the future (i.e., pay, morale, state of the civilian economy, civilian airline hiring plans, family satisfaction with service life, etc.). These estimates are projected for at least five years in the future. Comparisons of total force inventories of rated officers are then made against the computed total force requirements, and training rates for the entire five-year period are adjusted. This process is repeated each year so that adjustments can be made in training rates based on changes in requirements and/or updated inventory projections. This continuing process of adjustment is necessary to insure that the correct number of trained rated officers will be available in the future without large and expensive fluctuations in training rates.

### Training Rate Adjustments

When a comparison of requirements and inventories discloses a shortage or overage of projected rated officers, training rates are adjusted upward or downward in order to bring the program back into balance. For example, if projected FY 1988 pilot requirements exceed projected inventories by 1,000, an increase in training rates (that is, output or production) of pilots of 200 per year starting in FY 1984 may be appropriate. Inputs into the training program would start in FY 1983 in order to obtain the first increase in desired output in FY 1984. This reevaluation process is repeated at least once each year, with adjustments made as necessary to avoid wide fluctuations in loads.

### Determination of Training Loads

The process described above, through continuous updating of the comparison between projected rated officer requirements and inventories, leads to a requirement for phased output from the flight training establishment. The desired annual output, considering the anticipated attrition rates and the planned course lengths, as discussed in the preceding sections on the various types of flight training, establishes the size of the input necessary to achieve the target output. Training loads are then calculated, using these factors, to determine the average number of students to be on hand during the training year. For FY 1984, the currently recommended loads are those displayed previously in this chapter.

## VII

### PROFESSIONAL DEVELOPMENT EDUCATION

#### General Description

The purpose of Professional Development Education is to provide training and education to career military personnel to prepare them to perform the increasingly complex tasks that become their responsibilities as they progress in their military careers. Whereas Specialized Skill Training is directed toward specific job skills, Professional Development Education is concerned with broader professional development goals in such subjects as military science, engineering, medicine, and management. Professional Development Education is conducted at both military and civilian institutions. This category includes senior enlisted leadership training in recognition of the broad professional content of these courses, as opposed to the narrower skill-oriented training typical of most enlisted training programs. However, most of the programs in this category are for professional development of officers.

Training loads for FY 1975-84 are as shown in the table on the following page.

Professional Development Loads, FY 1975-84

<u>Service</u> <u>Component</u>	<u>FY 75</u>	<u>FY 76</u>	<u>FY 77</u>	<u>FY 78</u>	<u>FY 79</u>	<u>FY 80</u>	<u>FY 81</u>	<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>
<u>Army</u>										
Active	4,480	4,023	3,424	3,374	3,109	2,402	2,614	2,587	2,599	2,646
Natl Guard	68	94	83	89	55	53	55	54	54	58
Reserve	80	125	55	60	45	56	58	62	64	57
<u>Navy</u>										
Active	4,081	2,767	1,762	1,616	1,556	1,582	1,686	1,486	1,696	1,826
Reserve	15	11	10	15	3	10	16	39	40	40
<u>Marine Corps</u>										
Active	980	801	697	728	637	647	654	672	692	700
Reserve	15	15	18	16	15	14	12	18	22	22
<u>Air Force</u>										
Active	4,704	4,491	4,324	3,520	3,222	3,191	3,284	3,480	4,010	4,218
Natl Guard	39	39	42	36	36	38	47	42	44	44
Reserve	70	32	34	39	35	44	40	83	79	79
<u>DoD</u>										
Active	14,245	12,082	10,207	9,238	8,524	7,822	8,074	8,225	8,997	9,390
Gd/Res Total	287	316	242	255	189	215	228	298	303	300
DoD Total	14,532	12,398	10,449	9,493	8,713	8,037	8,466	8,523	9,300	9,690



The total loads in the table show a considerable disparity among the Services in amounts of Professional Development Education. This disparity is more apparent than real, and is related mainly to somewhat different ways of categorizing Service education programs.

The first three subcategories of Professional Development Education are officer professional military development programs. These programs are at three levels: basic, intermediate, and senior.

Education in the military school-system is fundamental to the development of military officers who are fully qualified to perform duties of high responsibility in both war and peace. In most non-military professions, growth in ability and knowledge is gained through experience. In the military, opportunities for full practice of the profession are limited to wartime, and even those officers with combat experience have not had the opportunity for thorough exercise of the decision skills they would require, for example, in a war in the Middle East. The military school system serves partially to fill this shortfall by educating the military officer in the skills and knowledge needed to perform his or her duties in a variety of locales and situations, both in peacetime and wartime.

In addition to their regular courses for active force officers, most schools in this category present nonresident courses and short seminars. Large numbers of Reserve Component officers and other military students are provided instruction through correspondence courses.

#### Basic Officers Professional Schools

The Marine Corps and Air Force conduct basic officer courses for officers with some experience in operational units. These courses are Service-wide in scope and are, therefore, carried in this report under Professional Development Education. The Army and Navy conduct courses that are at a similar level, but that are oriented toward specific skills (e.g., the Navy's Surface Warfare Officers Course) or somewhat broader skills within a specific part of the Service (e.g., the Army's Armor Officer Advanced Course). The Army and Navy courses, because of their specialization, are treated in this report as part of Specialized Skill Training.

The Marine Corps Amphibious Warfare Course is designed to prepare officers in the grade of captain for duties in battalion or squadron command or on regimental-level staffs. The course length is 39 weeks. The Air Force Squadron Officer School is an 8½-week course designed to prepare selected captains, after completion of some active service experience, for command and staff duties appropriate to their grade.

The training load data for FY 1982-84 associated with these Marine and Air Force courses are displayed in the following table.

Training Inputs, Outputs, Loads, Basic Officers  
Professional Schools, FY 1982-84

<u>Service</u>	<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>		
<u>Component</u>	<u>Load</u>	<u>Load</u>	<u>Input</u>	<u>Output</u>	<u>Load</u>
<u>USMC</u>					
Active	127	124	170	170	124
Reserve	7	10	- 210	210	8
<u>Air Force</u>					
Active	318	539	3,337	3,337	539
Reserve	1	1	8	8	1
Natl Guard	3	3	21	21	3
<u>DoD</u>					
Active	445	663	3,507	3,507	663
Res/Gd Total	<u>11</u>	<u>14</u>	<u>239</u>	<u>239</u>	<u>12</u>
DoD Total	456	677	3,746	3,746	675

Intermediate Service Schools

Each of the Services maintains a Command and Staff College. In addition, the Navy is executive agent for the Armed Forces Staff College, a joint institution sponsored by the Joint Chiefs of Staff with students from all Services. While there are differences in approach and curriculum based on the requirements of the parent Service, each of the courses is designed to prepare officers for command and staff duties in all echelons of their parent Services and in joint or allied commands. A relatively small number of officers from each Service attends one of the Command and Staff Colleges of the other Services; a few attend Allied schools at the same level. Attendance at the Intermediate Service Schools is on a selective basis. The following table lists the Command and Staff Colleges and their respective course lengths.

Intermediate Service Schools

<u>Schools</u>	<u>Location</u>	<u>Course Length</u> <u>(Weeks)</u>
Armed Forces Staff College	Norfolk, VA	22
Army Command and General Staff College	Fort Leavenworth, KA	42
College of Naval Command and Staff	Newport, RI	44
Marine Corps Command and Staff College	Quantico, VA	43
Air Command And Staff College	Montgomery, AL	43

Another school categorized as an Intermediate Service School for purposes of this reports is the Defense Systems Management College at Fort Belvoir, Virginia. This is a joint school that conducts a primary 20-week course in management concepts and methods with the major purpose of preparing selected military officers and DoD civilian personnel for assignments in program or project management.

Load data for military personnel attending Intermediate Service Schools is shown in the following table:

Training Inputs, Outputs, Loads, Intermediate  
Service Schools, FY 1982-84

<u>Service</u>	<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>		
<u>Component</u>	<u>Load</u>	<u>Load</u>	<u>Input</u>	<u>Output</u>	<u>Load</u>
<u>Army</u>					
Active	843	779	2,185	2,183	786
Reserve	38	39	526	524	32
Natl Guard	33	31	344	341	35
<u>Navy</u>					
Active	150	161	1,735	1,735	161
Reserve	31	32	354	354	32
<u>USMC</u>					
Active	136	145	198	198	145
Reserve	9	8	200	200	8
<u>Air Force</u>					
Active	471	481	606	606	468
Reserve	16	16	170	170	16
Natl Guard	14	14	111	111	14
<u>DoD</u>					
Active	1,600	1,566	4,724	4,722	1,560
Res/Gd Tot.	141	140	1,705	1,700	137
DoD Total	1,741	1,706	6,429	6,422	1,697

#### Senior Service Colleges

Each of the Military Departments maintains a Senior Service College, or "War College." In addition, there is the National Defense University, consisting of two joint Senior Service Colleges, The National War College and the Industrial College of the Armed Forces, is attended by students from all four Services. Senior Service College attendance is on a highly selective basis; students are chosen by Service selection boards from among the most promising officers in the lieutenant colonel/colonel, commander/captain grades.

The common purpose of the Senior Service Colleges is to prepare students for senior command and staff positions at the highest levels in the national security establishment and the allied command structure. The unifying focus is the study of national goals and national security

policy. Each of the Service colleges, while concentrating on the employment of the parent Service in the defense mission, also includes the study of the employment of the forces of other Services.

All of the colleges integrate the study of economic, scientific, political, sociological, and other factors into the consideration of national security problems. The Industrial College, in its approach to national security problems, emphasizes the use and management of national resources. The length of the principal courses at the Senior Service Colleges is ten months. Most colleges also conduct shorter special-purpose seminar-type courses, some particularly for Reserve Component officers. Use of these short courses is greater in the Navy.

Load data for the Senior Service Colleges are shown in the following table.

Training Inputs, Outputs, Loads, Senior  
Service Colleges, FY 1982-84

<u>Service</u>	<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>		
<u>Component</u>	<u>Load</u>	<u>Load</u>	<u>Input</u>	<u>Output</u>	<u>Load</u>
<u>Army</u>					
Active	288	254	558	558	255
Reserve	18	19	186	186	19
Natl Guard	14	15	112	112	15
<u>Navy</u>					
Active	105	116	1,585	1,585	116
Reserve	7	7	295	295	7
<u>USMC</u>					
Active	56	53	65	65	52
Reserve	1	1	35	35	1
<u>Air Force</u>					
Active	253	267	282	282	247
Reserve	9	9	54	54	9
Natl Guard	9	9	54	54	9
<u>DoD</u>					
Active	702	690	2,490	2,490	670
Res/Gd Tot.	<u>58</u>	<u>60</u>	<u>736</u>	<u>736</u>	<u>60</u>
DoD Total	760	750	3,226	3,226	730

Enlisted Leadership Training

The courses included in this category are designed to provide selected senior enlisted personnel the skills and knowledge needed to assume the responsibilities of the highest non-commissioned officer grades. These courses are the culmination of formal enlisted training

and are, for enlisted personnel, analogous to the officer courses discussed in the preceding sections. In addition to such subjects as methods of leadership, human relations, discipline and training, and the administration and employment of military organizations, the senior non-commissioned officer, in these higher-level schools, is given a broader perspective of the role and functions of his or her Service.

Schools, locations and course lengths are shown below:

<u>Schools</u>	<u>Location</u>	<u>Course Length (Weeks)</u>
Army: Sergeants Major Academy	Fort Bliss, TX	22
Navy: Senior Enlisted Academy	Newport, R.I.	9
Marine Corps: Staff NCO Academy	Quantico, VA	6
Air Force: Senior NCO Academy	Gunter AFB, AL	9

Other enlisted leadership training for more junior noncommissioned officers is carried in Specialized Skill Training. This includes command-sponsored NCO academies, for example. This training tends to be more skill related for specific types of specialized leadership responsibilities. The senior enlisted leadership training carried in this chapter is more properly thought of as Professional Development Education in a broader sense.

All four Military Services now sponsor a Senior Enlisted Leadership Academy. The Navy has the newest of the academies; the Navy's Senior Enlisted Academy at Newport, R.I. was open for 16 entrants in FY 1981. An enrollment of 270 senior enlisted personnel is planned for FY 1984.

Loads for Enlisted Leadership Training are slightly higher in FY 1984 than in the previous year, as shown in the following table.

Training Inputs, Outputs, Loads, Enlisted Leadership  
Training, FY 1982-84

<u>Service</u>	<u>FY 81</u>	<u>FY 82</u>	<u>FY 83</u>		
<u>Component</u>	<u>Load</u>	<u>Load</u>	<u>Input</u>	<u>Output</u>	<u>Load</u>
<u>Army</u>					
Active	231	250	806	794	250
Reserve	6	6	22	21	6
Natl Guard	7	8	26	25	8
<u>Navy</u>					
Active	2	37	270	270	47
<u>USMC</u>					
Active	81	111	852	849	111
Reserve	1	3	90	90	3
<u>Air Force</u>					
Active	182	189	1,192	1,192	189
Reserve	1	2	15	15	2
Natl Guard	5	5	30	30	5
<u>DoD</u>					
Active	516	587	3,120	3,105	597
Res/Gd Total	<u>20</u>	<u>24</u>	<u>183</u>	<u>181</u>	<u>24</u>
DoD Total	536	611	3,303	3,286	621
<u>Graduate Education Fully Funded, Full Time</u>					

The Department of Defense needs military officers with specialized advanced knowledge, at a level attainable only through graduate education, to perform effectively in certain military jobs. The purpose of the graduate education program in each of the Services is to provide graduate-level education in required disciplines to the numbers of officers required to maintain an inventory of officers qualified to fill these jobs. Under the program described in this section, military officers undergo graduate education on a full-time, fully-funded basis. An active service payback obligation of three years of service for each year of schooling is required of all officers entering the program, up to a maximum set by the Services. (The Funded Legal Education program established by 10 USC 2004 requires an active service commitment of two-for-one.)

The following table displays training load data for these graduate education programs. All participants are members of the Active Forces.

Training Inputs, Outputs, Loads, Graduate Education,  
Fully Funded, Full Time, FY 1982-84

<u>Service</u>	<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>		
<u>Component</u>	<u>Load</u>	<u>Load</u>	<u>Input</u>	<u>Output</u>	<u>Load</u>
<u>Army</u>	902	1,017	675	673	1,017
<u>Navy</u>					
Active	944	1,038	695	642	1,127
<u>USMC</u>					
Active	128	129	79	80	124
<u>Air Force</u>					
Active	<u>1,040</u>	<u>1112</u>	<u>825</u>	<u>799</u>	<u>1,190</u>
DoD Total	3,014	3,296	2,274	2,194	3,458

Officer graduate students attend either a civilian educational institution or one of the two Service institutions, the Naval Postgraduate School or the Air Force Institute of Technology, depending upon where the required education can best be obtained. Curricula in the two service institutions emphasize military-unique courses, such as in logistics management or intelligence operations, and military applications in all other courses. While these schools are primarily used by the parent Services (including Marine Corps use of the Naval Postgraduate School), they also educate some students from other Services. The numbers of Navy and Air Force officers enrolled in advanced degree and short course programs reflects a five-year plan developed by the Services to improve the advanced technological and engineering capabilities of the career force. The plan incorporates greater utilization of the Naval Postgraduate School and the Air Force Institute of Technology. The following table displays student loads for these two schools.

### Graduate Education Loads at Service Institutions

	Naval Postgraduate School			Air Force Institute of Technology		
	FY 81	FY 82	FY 83	FY 81	FY 82	FY 83
	Load	Load	Load	Load	Load	Load
Army	124	124	124	38	38	38
Navy	768	829	913	8	10	10
Marine Corps	100	101	95	5	5	5
Air Force	73	83	84	565	560	543
Total DoD	1,065	1,137	1,216	616	613	596

Requirements for graduate-educated officers depend upon the number of "validated billets", that is, military positions that have been determined to require an incumbent with graduate-level education in the applicable academic discipline. Each Service has established a system, ordinarily culminating in a board of senior officials in the Service headquarters, which examines the duty prerequisites for each billet nominated for validation and determines if the job does, in fact, require an officer with an advanced degree. Requirements for included graduate legal education are determined separately.

#### Other Full Time Education Programs

In addition to the Professional Development Education programs already described there is a variety of other full time programs tailored to meet the particular needs of the Services. (Health Professions Education programs are discussed in a separate section at the end of this chapter).

Several programs have been designed to permit selected individuals an opportunity to work toward associate, baccalaureate or advanced degrees. These programs benefit the Services in several important ways: they increase the technical qualifications of the individuals in the program; they improve the general educational levels of Service personnel; and they provide career retention and recruiting incentives to outstanding personnel. In addition, to the extent possible, personnel in advanced education programs are later used to satisfy validated requirements and hence reduce the required student load in graduate education for validated billets.

The degree-completion programs are managed by the individual Military Departments and each has its own selection criteria. However, in general a person is not selected for a program unless the education will enhance his or her professional development and be of use to the Military Department. All of the programs require a payback from the individual.



Short-course training provides the Military Services with needed skills in a wide variety of scientific, administrative and other fields. These programs are selected to train personnel in job-oriented skills that can best be acquired through abbreviated courses. Accounting, traffic management and aviation safety are examples of skills involved. Some of this included training is conducted in DoD schools, the remainder in civilian institutions.

The following table displays load data for this category;

Training Inputs, Outputs, Loads, Other Full-Time  
Education Programs, FY 1982-84

<u>Service</u>	<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>		
<u>Component</u>	<u>Load</u>	<u>Load</u>	<u>Input</u>	<u>Output</u>	<u>Load</u>
<u>Army</u>					
Active	323	299	1,446	1,443	338
<u>Navy</u>					
Active	125	136	1,694	1,680	141
Reserve	1	1	6	6	1
<u>USMC</u>					
Active	136	130	117 100	87 80	14 113
<u>Air Force</u>					
Active	738	937	9,740	9,719	1,045
Reserve	23	24	614	614	24
Natl Guard	11	13	299	299	13
<u>DoD</u>					
Active	1,322	1,502	12,980	12,963	1,637
Res/Gd Tot	35	38	919	919	38
<u>DoD Total</u>	1,357	1,540	13,899	13,882	1,675

Health Professions Education

This subcategory is made up of a wide variety of courses for personnel of all health professions -- physicians, dentists, nurses, medical administrators, etc. The majority of the courses offered are conducted in military facilities, and vary in length from a few days to a full year. Some training is conducted at civilian medical institutions, including, in the case of the Army, some advanced degree programs. The purpose of Health Professionals Education is to expand the skills of

military medical personnel and to provide them timely information on the latest techniques in their fields. Educational programs connected with the acquisition of health professionals is carried in this report under Officer Acquisition Training. In this category, the Navy provides long-term training. The Army and Air Force rely on short courses.

The following table shows load data for Health Professions Education.

Training Inputs, Outputs, Loads, Health Professions  
Education, FY 1982-84

<u>Service</u> <u>Component</u>	<u>FY 82</u> <u>Load</u>	<u>FY 82</u> <u>Load</u>	<u>FY 84</u>		
			<u>Input</u>	<u>Output</u>	<u>Load</u>
<u>Army</u> Active	301	323	14,148	14,148	320
<u>Navy</u> Active	140	208	221	170	234
<u>Air Force</u> Active	<u>478</u>	<u>485</u>	<u>2,298</u>	<u>2,234</u>	<u>540</u>
DoD Total	755	812	3,075	3,076	787

## VIII

### RESERVE COMPONENTS TRAINING

In addition to training members of the active forces, the Service training establishments also train members of the Reserve Components. Reserve Component training, as part of individual training and education, involves Reservists and Guardsmen who are on active duty for formal school training. It does not include training of Reserve Component members provided under the following circumstances:

- Training received while members are on extended active duty (this training is included in active force aggregates);
- Training conducted by the Reserve Components themselves;
- Training received on annual active duty, except if provided through courses conducted by the active training establishment;
- Any training received while the individual is not in an active military status; as a minor exception, some Reserve and Guard technicians attend military schools in Civil Service status.

The purpose of this chapter is to summarize the amount and types of training of Reservists and Guardsmen which are conducted by the active training establishments. The training loads discussed in this chapter are included within the loads attributed to the various Reserve Components in the previous chapters.

Training of members of the Reserve Components will comprise 18 percent of all individual training and education in FY 1984, or 2 percentage points more than required in FY83. The change reflects DoD's overall manpower policy of increasing the peacetime reserve strengths relative to the active force strength in FY 1984. The Reserve training loads and workloads will increase accordingly. Training loads for each of the Reserve Components for each of the major categories of training for FY 1984 are shown in the following table.

Training Loads, Reserve Components, FY 1984a/

<u>Component</u>	<u>Recruit</u>	<u>One-Station Unit Training</u>	<u>Officer Acquisition</u>	<u>Specialized Skill</u>	<u>Flight</u>	<u>Professional Development</u>	<u>Total</u>
Army Reserve	3,359	2,757	7	6,459	85	57	12,724
Army National Guard	5,094	8,535	44	7,188	186	58	21,105
Naval Reserve	1,470	-	-	1,376	-	40	2,886
USMC Reserve	1,798	-	329	1,074	-	22	3,223
Air Force Reserve	397	-	29	1,128	99	52	1,705
Air National Guard	804	-	-	1,736	261	44	2,845
Total, Reserve Components	12,922	11,292	409	18,961	631	273	44,488

a/ Loads in this table are a summary of Reserve Components loads displayed previously in this report, and are not additive to them.

The following table summarizes load data for entry-level Reserve Component basic qualification training for FY 1984.

Enlisted Entry-Level Training, Reserve Components, FY 1984

	<u>Inputs</u>	<u>Outputs</u>	<u>Loads</u>
Recruit Training	83,277	76,102	12,922
Initial Skill Training	85,494	78,899	13,738
One-Station Unit Training	<u>51,552</u>	<u>46,947</u>	<u>11,292</u>
Totals	210,323	201,948	37,952

Reserve Component training will account for an increasing share of all programmed Reserve and Active Training in FY 1984. Recruit Training for the Reserves and Guard accounted for 17 percent of all DoD Recruit training in FY 1982 but will account for 30 percent in FY 1984. Reserve Component Training accounts for 18 percent of all Initial Skill Training (Enlisted) and 45 percent of all Army One-Station Unit Training programmed in the Department of Defense for FY 1984.

Although entry-level training for enlisted personnel makes up 85 percent of total Reserve Component training loads, Reserve and Guard officers and enlisted personnel beyond the initial entry stage also are trained by the active establishment. The majority of this training is at the more advanced levels of Specialized Skill Training, and fills the same demands for skill progression or new equipment training that these types of training provide for active members. Reserve Component participation in Flight Training is relatively minor, since most aviator requirements in Reserve Component units are filled by experienced aviators who join after extended service in the active components.

To accommodate an increased force structure in the Reserve Components, more professional development training is required for mid-career officers and enlisted personnel in the Reserves and National Guard. However, Professional Development Education still accounts for only about 5 percent of total DoD officer training at the basic, intermediate and senior levels and about 4 percent of Enlisted Leadership Training in FY 1984.

The great majority of training of Reservists and Guardsmen is in Recruit and Specialized Skill Training and, for the two Army Components, One-Station Unit Training. Within Specialized Skill Training, most of this training is in Initial Skill Training for enlisted personnel. The combination of Recruit and Initial Skill Training or One-Station Unit Training for enlisted personnel, including Reservists and Guardsmen, provides them basic qualification training that transforms the untrained civilian into a servicemember with a useable skill.

Enlisted members of the Reserve Components without prior service receive the same basic qualification training as active service members. Each non-prior service enlistee in the Reserve Components undergoes, as a minimum, twelve weeks of active duty training. This is carried out by sending the new recruit through Recruit Training and on through Initial Skill Training. Alternatively, many Army Guardsmen and Reservists are provided similar training in certain skills through One-Station Unit Training. Trainees who graduate from Recruit Training proceed to Initial Skill Training in their occupational specialty. This may consist of a course in a Service school or Advanced Individual Training at an Army training center. If a course in the proper skill is not available, the trainee may be assigned to on-the-job training in an active duty for training status. The actual length of active-duty training, in comparison with the statutory twelve weeks minimum, varies from twelve weeks to twelve months, depending on the occupational specialties involved. To accommodate the Reserve Component soldier, the Army split-training program allows completion of initial entry training over a period of normally less than two years in two training periods.

Reserve Component personnel participate in a variety of non-resident courses sponsored by Service schools; Reservists and Guardsmen make use of these training opportunities on the same basis as active personnel. For many Reserve and Guard officers, consideration for promotion depends upon successful participation in Professional Development Education programs.

Beyond the training covered in the training loads, the active training establishment makes other valuable contributions to the state of training of the Reserve Components. Perhaps the most important is realized through former active members who join the Reserve Components after having been trained on active duty. The Reserve Components also receive graduates of Army and Air Force ROTC who are not called to extended active duty. In many instances, the Active Components also provide facilities and equipment used by the Reserve Components for training.

In summary, training of members of the Reserve Components forms a significant portion of the workload of the active training establishment. Particularly at the entry level, this training is indispensable to the readiness of individuals and organizations of the Reserve Components and to the realization of the Total Force policy.

## IX

### TRAINING MANPOWER

#### General Description

Manpower associated with the individual training mission in the Department of Defense can be divided into two parts: first, the trainees and students being trained, and, second, the military and civilian manpower that conducts and supports the training. These two classes of manpower are discussed and explained in this chapter.

#### Trainees and Students

Manpower undergoing training in the Defense training establishment is defined and quantified in three different ways, each of which serves a somewhat different purpose with regard to manpower accounting and resource allocation.

1. Training Loads. These are the "military training student loads" which are detailed in Chapters III through VII of this report -- the average number of military trainees, students, and cadets of each Service and component in training during a given fiscal year, which is subject to annual congressional authorization. Training loads include all military manpower of a given Service or component who are undergoing individual training, regardless of whether the training is conducted by the parent Service, one of the other Services, a DoD school, or by an agency or institution outside the Department of Defense, such as a civilian college or university. Training loads also include all military personnel in training regardless of their assignment status. Some trainees and students are assigned to the training activity; others are attending training in a temporary duty (TDY) or temporary additional duty (TAD) status while remaining assigned to their parent units; still others are attending while in transit from one permanent assignment to another.

Since training loads are an annual average and most courses are much shorter than a year in length, the actual number of students and trainees who enter training, and the number who graduate, is considerably greater than the training load. For example, the total programmed training load for Recruit Training in FY 1984 is less than 57,000, yet over 361,000 persons are to enter Recruit Training and about 334,000 are to graduate.

2. Training Workloads. The total number of trainees and students undergoing training within DoD includes some trainees and students of foreign nations, DoD civilian employees, and members of other departments and agencies of the U.S. Government, notably the Coast Guard. In addition, many U.S. military students and trainees are trained by a Service

other than their own. Consequently, the average number of students being trained by a given Service, or its training workload, usually differs from its training load. For example, the Marine Corps has a programmed Flight Training load of 674 in FY 1984; however, since the training is conducted by other Services, its Flight Training workload is zero. On the other hand, because the Navy trains many personnel from other Services and Coast Guard and foreign students as well as most of its own students, the Navy's Specialized Skill Training workload is higher than its training load.

Since training workload, in conjunction with other applicable considerations, is the major determinant of the resources (manpower, funds, materiel and facilities) required to conduct training, it, rather than training load, is appropriately used in considering the allocation of resources to a Service or a training activity. Programmed training workloads for each of the Services in FY 1984 are displayed in the following table.

Training Workloads, FY 1984  
(Thousands)

Category	Army	Navy	Marine Corps	Air Force	DoD
Recruit	19.6	16.1	10.9	9.9	56.5
Officer Acquisition	4.7	5.9	8.5	5.3	16.5
Specialized Skill	59.4	52.8	6.0	32.3	151.8
Flight	1.8	2.7	-	4.0	8.5
Professional Development Education	2.0	2.7	.4	3.1	8.2
One-Station Unit Training	25.3	-	-	-	25.3
Total	112.8	80.2	18.9	54.5	265.8
					266.3

Note: Detail may not add due to rounding.

3. Students, Trainees, and Cadets. In the Individuals accounts of the Defense Manpower Requirements Report, military manpower is included for each Service as "Trainees and Students" and (except for the Marine Corps) "Cadets". Conceptually, this manpower represents the number of military trainees, students, cadets and midshipmen programmed to be assigned (PCS as opposed to TDY/TAD) for training on the last day of a given fiscal year. Student, trainee, and cadet manpower is similar to training load in that both represent military members of the reporting Service in training status. Nevertheless, there are substantial differences in the way the amount of manpower in these two manpower aggregations is calculated, with the result that the totals are seldom the same. The major reasons for these differences are:

- Training loads are many years in training status, as has been mentioned, whereas trainees, students, and cadets are end-strengths, or



numbers in training on the last day of the fiscal year. Trainee, student, and cadet numbers are thus affected by the seasonality of enlistment patterns, described in Chapter III, while the element of seasonality is evened out in training loads.

- Training loads include students attending training in a temporary duty (TDY or TAD) status as well as those attending in a PCS status. In the Defense Manpower Requirements Report TDY and TAD students are carried in the categories of their parent units. In addition, some individuals attending training while in transit from one permanent assignment to another are included in training loads but are classified as "Transients" in the Defense Manpower Requirements Report.

Training loads are a more accurate measure of the amount of training that is needed to meet military requirements than are the categorizations "trainees," "students," and "cadets."

#### Manpower in Support of Training

Military and civilian manpower is required to accomplish the individual training mission. This manpower conducts and supports instruction, operates training bases and facilities, maintains training equipment, produces training aids, provides personal and community services to students, trainees, and other military members, plans and manages training, and performs all the other tasks necessary to conduct and support individual training.

ROTC students are not military members in an active duty status and are not included in military manpower training loads. However, ROTC Basic Camp loads are included in the Army Recruit training loads. To be consistent with this treatment of ROTC students, manpower supporting ROTC programs is not included in the following manpower tables.

The following tables sum up manpower in support of training by the general functions Conduct of Individual Training, Training Base Operating Support, and Management Headquarters. The function Conduct of Individual Training includes the following types of manpower: instructors, instructional support, school/training center staffs, student supervisors and direct training support such as training aids and literature, audio-visual resources, and instructional systems development.

#### DoD Manpower in Support of Training, Conduct of Individual Training Function (End Strengths, Thousands)

	<u>FY 82</u>		<u>FY 83</u>		<u>FY 84</u>	
	<u>Military</u>	<u>Civilian</u>	<u>Military</u>	<u>Civilian</u>	<u>Military</u>	<u>Civilian</u>
Army	39.5	10.2	39.5	10.7	40.6	12.0
Navy	27.8	3.1	28.2	3.2	28.8	3.3
Marine Corps	8.9	.2	8.5	.2	8.7	.2
Air Force	19.9	5.2	20.7	5.1	21.8	5.1
DoD	96.1	18.7	97.0	19.2	100.0	20.9

DoD Manpower in Support of Training,  
Base Operating Support Function,  
(End Strengths, Thousands)

	<u>FY 82</u>		<u>FY 83</u>		<u>FY 84</u>	
	<u>Military Civilian</u>		<u>Military Civilian</u>		<u>Military Civilian</u>	
Army	13.8	23.1	10.6	22.6	10.5	22.7
Navy	6.9	6.9	6.6	6.8	6.6	6.7
Marine Corps	3.7	2.0	3.2	2.1	3.3	2.1
Air Force	10.8	6.7	10.6	6.8	11.7	6.8
DoD	35.2	38.7	31.0	38.3	32.2	38.3

DoD Manpower in Support of Training, Management Headquarters Function  
FY 1982-1984  
(End Strengths, Thousands)

	<u>FY 82</u>		<u>FY 83</u>		<u>FY 84</u>	
	<u>Military Civilian</u>		<u>Military Civilian</u>		<u>Military Civilian</u>	
Army	0.6	0.8	0.6	0.9	0.6	0.9
Navy	0.3	0.5	0.3	0.5	0.3	0.5
Marine Corps	*	-	*	-	*	-
Air Force	0.8	0.5	0.9	0.5	0.9	0.5
DoD	1.7	1.8	1.8	1.9	1.8	1.9

\*Less than 50.

DoD Manpower in Support of Training, All Functions, FY82-84  
(End Strengths, Thousands)

	<u>FY 82</u>		<u>FY 83</u>		<u>FY 84</u>	
	<u>Military Civilian</u>		<u>Military Civilian</u>		<u>Military Civilian</u>	
Army	53.9	34.2	50.7	34.2	51.8	35.5
Navy	35.0	10.5	35.1	10.5	35.8	10.6
Marine Corps	12.7	2.2	11.8	2.3	12.0	2.4
Air Force	31.5	12.3	32.1	12.4	34.3	12.4
DoD	133.1	59.2	129.7	59.4	133.9	60.9

The Service estimates of training attributable manpower include staff and support manpower that do not contribute to the production of student output and loads but are reported as training resources in the Five Year Defense Program (FYDP) because they belong to organizations with a primary mission of training. The majority of the non-training attributable manpower is for Base Operating Support (BOS) given to non-training tenant activities at training installations.

Manpower estimates in this and previous Training Reports are based on DoD's Five Year Defense Program (FYDP). The reports for 1979 and earlier years used adjusted FYDP data to reflect Service estimates on the level of manpower not attributable to training. In the FY 1980 report, that practice was discontinued in order to provide information

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ASSISTANT SECRETARY OF DEFENSE (MANPOWER RESERVE  
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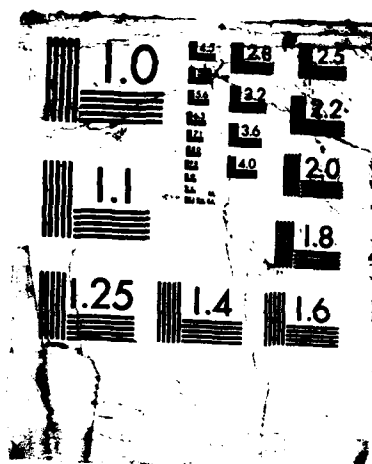
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in a manner consistent with the President's Budget. This current FY84 report continues with the practice of reporting data consistent with the President's FY84 budget.

The following tables show changes in total military and civilian manpower in support of training between FY 1977 and FY 1984. Manpower for each year is shown by the functions Conduct of Individual Training, Base Operating Support, and Management Headquarters.

Trends, Manpower in Support of Training,  
DoD Total, By General Function, FY 1977-1984  
(End Strengths, Thousands)

	<u>FY 77</u>			<u>FY 82</u>			<u>FY 84</u>			<u>Percent Change</u>	
	<u>Mil</u>	<u>Civ</u>	<u>TOT</u>	<u>Mil</u>	<u>Civ</u>	<u>TOT</u>	<u>Mil</u>	<u>Civ</u>	<u>TOT</u>	<u>Total Manpower:</u>	
										<u>FY 77-84</u>	<u>FY 82-84</u>
Conduct of Individual Training	108	22	130	96	19	115	100	21	121	-7%	+ 5%
Base Operating Support	36	45	81	35	39	74	32	38	70	-16%	- 6%
Management Headquarters	<u>2</u>	<u>2</u>	<u>4</u>	<u>2</u>	<u>2</u>	<u>4</u>	<u>2</u>	<u>2</u>	<u>4</u>	-	-
TOTAL	145	70	215	133	60	193	134	61	195	-10%	+0.5%

Note: Detail affected by rounding

As the table shows, the total military and civilian manpower in support of training is fairly stable between FY 1982 and 1984. However, within the total, there has been a tradeoff. An increase in manpower conducting individual training has been offset by a similar reduction in Base Operating Support.

As shown in the following tables, training workloads are about 4 percent higher in FY 1984 than in FY 1982; considered with the unchanged level of total manpower in support of training, this implies a notable increase in manpower productivity.

Trends, Training Workloads, FY 1977-84  
(Thousands)

	<u>FY 77</u>	<u>FY 82</u>	<u>FY 84</u>	<u>Percent Change</u>	
				<u>FY 77-84</u>	<u>FY 82-84</u>
Army	99	113	113	+14%	-
Navy	67	78	80	+19%	+ 3%
Marine Corps	21	18	18	-14%	-
Air Force	54	47	55	+ 2%	+17%
DoD	<u>238</u>	<u>256</u>	<u>266</u>	<u>+12%</u>	<u>+ 4%</u>

Note: Detail affected by rounding.

Trends, Training Manpower and Training Workloads, FY 1977-84  
(Thousands)

	<u>FY 77</u>	<u>FY 82</u>	<u>FY 84</u>	<u>Percent Change</u>	
				<u>FY 77-84</u>	<u>FY 82-84</u>
Manpower in Support of Training	215	193	195	-107%	+0.5%
Training Workloads	238	256	266	+12%	+ 4%

Training Manpower Detailed by Service and Type of Training

As was noted early in this chapter, training workloads, in conjunction with other factors, are the determinants of the resources required to conduct training. The workload/resource relationship is not a simple one, but depends upon the nature of training and training support involved. For example, Flight Training normally requires a great deal of support manpower for aircraft maintenance; weapons training requires close instructor supervision for safety considerations.

Training Manpower by  
Service and Type of Training, FY 1984  
(Thousands)

Training Activity

	<u>Army</u>		<u>Navy</u>		<u>Marine Corps</u>		<u>Air Force</u>		<u>DoD</u>	
	<u>Mil</u>	<u>Civ</u>	<u>Mil</u>	<u>Civ</u>	<u>Mil</u>	<u>Civ</u>	<u>Mil</u>	<u>Civ</u>	<u>Mil</u>	<u>Civ</u>
Recruit Officer	4.4	0.1	1.6	*	2.4	*	.8	*	9.2	0.2
Acquisition Specialized Skill	1.0	1.0	0.6	.9	.3	-	1.3	0.8	3.1	2.7
Flight Professional	17.1	5.4	17.0	0.8	5.2	0.2	10.2	2.2	49.6	8.5
Development	1.3	.4	8.6	0.7	0.4	-	6.8	.8	17.1	2.0
One-Station	0.5	0.7	0.4	0.7	0.3	0.1	1.0	0.5	2.2	2.0
Unit Training	7.4	0.4							7.4	0.4
Medical Training	1.9	0.6	0.5	*	-	-	0.6	0.1	3.0	0.7
Direct Training Support	7.1	3.2	0.1	0.2	0.1	*	1.1	0.7	8.4	4.1
Base Operating Support	10.5	22.7	6.6	6.7	3.3	2.1	11.7	6.7	32.1	38.2
Management Headquarters	0.6	0.9	0.3	0.5	*	-	0.9	0.5	1.9	1.9
TOTAL <sup>1/</sup>	51.8	35.5	35.8	10.6	12.0	2.4	34.4	12.4	134.0	60.9

<sup>1/</sup> The Service estimates of training attributable manpower include some staff and support manpower that does not contribute to the production of student output and loads but are reported as training resources in the Five Year Defense Plan (FYDP) because they belong to a larger organizations with a primary training mission.

\*Less than 50

Manpower data in the six categories of training (e.g. Recruit through One-Station Unit Training) includes instructors, school/training center staffs and student supervisors. Direct training support includes such tasks as training aids and literature, audiovisual resources and instructional systems development.

## TRAINING MANAGEMENT AND FUNDING

General Description

Chapters III through VII of this report describe and explain the military training student loads requested to be authorized for each military component. These student loads represent patterns and levels of training effort which require manpower and other resources. The purpose of this chapter is to describe and explain the resources (other than manpower, which is discussed in Chapter IX), funding and costs associated with the conduct of individual training.

In considering training resources, it is important to distinguish between the training loads required by a Service but conducted in part outside the Service, and the workloads representing training conducted by the Service. As discussed in the previous chapter, the workloads, which represent training conducted by a Service, are the basis for resource requirements (manpower, materiel, facilities, and funds) needed to conduct and support the training that the Service executes.

Management of Individual Training

Detailed management of individual training is carried out by the four Military Services. Each of the Services, except the Marine Corps, has a training commander immediately subordinate to the Service chief who is responsible for most of the individual training conducted within that Service. Some training is managed directly by the Service headquarters. However, the most prevalent pattern of control is through a training command headquarters that manages most Service military schools, training centers, and other training facilities.

Staff Responsibilities

Within the Office of the Secretary of Defense, staff responsibility for individual training and education policies rests with the Assistant Secretary of Defense (Manpower, Reserve Affairs and Logistics), with a strong influence over the allocation and use of resources being exercised by the Assistant Secretary of Defense (Comptroller). The staffs of these two offices work closely together in the staff supervision of DoD individual training and education. Other OSD offices, such as Health Affairs, Intelligence, and Research and Engineering, participate as appropriate. The OSD role is generally one of policy formulation, allocation of resources, overview of Service training programs, and coordination among the Services.



Within each Service headquarters, a principal staff officer has responsibility for individual training. Other staff members may have primary responsibility for certain types of training, as, for example, a Service Surgeon General for professional medical training. Other staff members have collateral responsibilities for the allocation of manpower and funds to the training function.

Primary responsibility on the Army staff for individual training rests with the Deputy Chief of Staff for Operations and his subordinate, the Director of Training. Within the Navy, the principal staff officer is the Deputy Chief of Naval Operations for Manpower, Personnel, and Training. Headquarters, Marine Corps, manages training through the Deputy Chief of Staff for Operations and Training and his subordinate, the Director of Training. Commanders of the separate major subordinate training activities report directly to the Commandant of the Marine Corps, dealing with the headquarters training staff. Within the Air Force, the Director of Personnel Programs, under the Deputy Chief of Staff for Manpower and Personnel, has staff responsibility for individual training.

#### Training Commands

The Army, Navy and Air Force each has a command headquarters that manages most of the individual training conducted by that Service.

The Army's principal training command headquarters is Headquarters, Training and Doctrine Command (TRADOC), located at Fort Monroe, Virginia. TRADOC's control is exercised through training installation and school commanders throughout the United States.

The Chief of Naval Education and Training, headquartered at Pensacola, Florida, exercises control, through subordinate functional commanders, of education and training conducted in training centers, schools and programs throughout the Navy.

Headquarters, Air Training Command, at Randolph Air Force Base, Texas, directly controls individual training centers and units.

The Service-wide training commands are not responsible for all individual training and education conducted. As already noted, the Surgeons General are responsible for most health professional and medical technical training. Other examples include the Service Academies, which are under the direct supervision of the respective Service Chiefs.

The Service Training Command Chiefs and the Marine Corps Deputy Chief of Staff for Training are also the senior member of the Inter-service Training Review Organization (ITRO). The ITRO was formed several years ago to facilitate cooperative training efforts among the services. The committees and working groups of the Organization perform the detailed analysis which becomes the basis for decisions on the feasibility of consolidation of training courses or other cooperative arrangements. A listing of major joint training efforts is provided in Appendix B.

## Training Facilities

Appendix C lists the principal individual training facilities of the four Services for each of the major categories of training. Projected average training workloads and training support manpower for FY 1984 are also shown for each facility listed.

## Training Funding and Costs

The training costs addressed in this section include funding in the President's Budget for Fiscal Year 1984 requested for individual military training and education. These costs differ from life-cycle costs, which would take account of retirement and other costs that are not funded during FY 1984. Depreciation costs of training facilities and equipment are not included, although training investment costs estimated for FY 1984, such as procurement and construction costs, are included. The report uses the data in the DoD's Five Year Defense Program (FYDP) as the basis for all estimates of the manpower and funds devoted to training and education.

The costs in this chapter include funding for military pay and allowances for both PCS and TDY/TAD students, pay and allowances of military and civilian personnel in support of training, training related PCS costs, base operating costs in support of training, training-related operations and maintenance costs (including civilian support personnel pay and allowances), training investment costs for construction and procurement, and overhead costs for training administration and command. Certain costs for activities that are organic parts of training organizations but that support non-training missions (such as Base Operating Support for non-training activities on training bases) are also included to provide comparability with the Five Year Defense Program and the President's Budget.

For a given Service, the requirement for funding for training arises from two factors: first, the need to fund the pay and allowances of its own military training student loads, regardless of where or by whom the students are trained; and, second, the need to provide for the level of individual training and education effort necessary to meet the Service's commitments to accomplish training for its own and other students.

For comparability, the funding requests associated with ROTC and other non-load training programs are deleted from the following table. Hence the table reports FY 1984 funding estimates related to the requested FY 1984 training loads.

Special caution should be exercised in using these costs for comparisons among Services. Differences in missions among the Services, differing operating and training conditions, and differences in the mix of component Service training programs, degrade the soundness of comparisons based on aggregated data such as these.

Funding of Individual Training  
by Service and Type of Training, FY 1984  
(\$ Millions)

	<u>Army</u>	<u>Navy</u>	<u>USMC</u>	<u>Air Force</u>	<u>DoD</u>
Recruit	\$196.6	\$326.7	\$183.1	197.8	\$904.3
Officer Acquisition	106.5	132.3	18.0	143.3	400.2
Specialized Skill	926.8	1,214.0	303.6	735.0	3,179.4
Flight	442.7	749.3	36.9	695.7	1,924.6
Professional					
Development Education	174.6	93.3	26.4	171.1	465.5
One-Station Unit					
Training	294.8	-	-	-	294.8
Medical Training	163.7	100.4	-	118.7	465.5
BOS and Direct					
Training Support	1,924.9	838.8	187.5	836.4	3,787.6
Management					
Headquarters	50.1	27.0	0.4	41.8	119.3
PCS Cost					
for Training	213.5	150.6	111.3	65.9	541.3
TDY and Reserve					
Component Pay					
and Allowances	<u>834.0</u>	<u>261.9</u>	<u>41.3</u>	<u>258.8</u>	<u>1,395.9</u>
Total	\$5,328.3	\$3,894.4	\$908.5	\$3,264.5	\$13,395.7

Note: May not add due to rounding.

Student pay and allowance totals for a Service's requested military student training load have been added to pay and allowances for the staff and support manpower for each Service's workload. This can produce significant distortions in the use of these aggregates for assessing training efficiency (e.g., in the Marine Corps, where significant loads are trained by other Services).

Appendix D shows a distribution of funds in the table above by appropriation.

The preceding table includes substantial segments of cost which are not normally sensitive to significant shifts (say up to fifteen percent) in training load. These include certain command, base, facility, and equipment costs. These "fixed" costs need to be considered in program and budget adjustments because, within a reasonable range of output, they remain approximately the same and do not vary as the training load varies. They change, instead, with decisions to change the manner of accomplishing training, most often through training investment decisions or base realignments. For FY 1984 Base Real Property Maintenance is included for Army, Navy and Marine Corps for the first time. Air Force was the only Service to allocate these costs to Program 8 until recent years.

It should be noted that there are often substantial year-to-year fluctuations in funding for fixed costs. These costs are termed "fixed",

not because they do not change from year to year, but because their changes characteristically are not "variable" with changes in workloads from period to period. Funding of these costs reflects significant increases, however, for years in which there are major procurements of, for example, simulators, aircraft, or construction in support of training.

Thus, the proportion of total funding requested to support training differs significantly among the Services and among categories of training; the proportion in the short run, however, is seldom less than one-third of total cost. This has important implications for the extent of funding adjustments appropriate to changes in the level of activity or size of a training program. Other things equal, if training funds are to be adequate for the needs of a reduced program, they must be reduced by a smaller proportion than the program loads in order to account for fixed costs. By the same token, program increases, within reasonable capacity limits, may not require a proportional increase in total program funding.

Training costs are affected by inflation, both because of price rises for goods and services and because of the pay of the military and civilian personnel involved as students, instructors, and support. Some training program costs are strongly affected; in addition, by energy cost increases, especially in flight training.

APPENDICES

## APPENDIX A

### DETERMINING TRAINING REQUIREMENTS

Discussions of the determination of training requirements in this report reflect a generally uniform approach. The following overview of the methodology for assessing and calculating training requirements is provided as a framework for understanding this approach. As noted, details in calculation may differ to some extent among the Services and among the training categories.

#### Requirements

All training is accomplished to satisfy the need for personnel with certain types and levels of skills to man the approved or projected force. The Services, over the years, have developed detailed, systematic methods of determining the manpower needed to man and support the forces. The Manpower Requirements Report discusses this process. From these force requirements for manpower, the need for trained personnel with specific skills can then be derived. For example, a given force structure establishes the number of trained enlisted personnel needed. The number of authorized positions within that force structure for radar technicians establishes the basic requirement for trained personnel with that skill. This process is reiterated on a phased basis for all skills and skill levels for each Service, for both officer and enlisted skills. The total of all personnel in all skills needed to perform all the jobs in the force at a point in time represents the total requirement for trained manpower projected for that date.

#### Inventory Projections

The requirements identified through this process must be measured against the available assets, in terms of trained personnel on hand in each skill and skill level. From this asset base, estimates are made of how many trained personnel will be available at various points of time in the future. These estimates take into account probable rates of change to the current inventory -- through reenlistment, promotion, discharge, death, retirement, or other causes. These estimates are based on the best historical information available, tempered by judgment of how in the future personnel policies, the state of the economy, behavioral patterns, and other factors, many of them difficult to predict, will affect the probabilities that a trained individual will remain in the Service. A comparison of skill requirements and skill inventory projections, over time, establishes the extent of shortage or surplus likely to exist in each skill area by month and year. Adjusting the inventory may entail retraining personnel who are in surplus skills, but to a much greater degree, adjustment is likely to require the training of new accessions at entry level in shortage skill areas. The process

places a demand on the personnel management and training establishments continually to analyze information about attrition as it occurs, by skill and skill level, in order to produce the right number of trained personnel with the proper skills needed to restore and maintain the balance of the skill inventory. The workload thus placed on the training establishment is detailed by graduates needed from courses of various lengths and is measured in terms of average student load, or "training load."

#### Average Training Loads

Resources (men, money, and materiel) needed for any particular category of training vary with the number of students undergoing training at any given time. Facilities must be constructed and maintained to accommodate these students in training. The training establishment must maintain a sufficient staff of qualified instructors to conduct instruction for the "load" of students. Students and Trainees, as described in the "Individuals" chapter of the Manpower Requirements Report, must be programmed to account for the fact that these personnel are in formal school training and are not available for duty with operational units. All of these personnel must be paid, housed, and supported. The basis for establishing these resource requirements is the "average training load."

The aggregate training load of courses of instruction within a given training category or sub-category for a given period is computed in accordance with the following formula, except as noted:

$$L = \frac{\sum_{i=1}^n \left( \frac{E_i + G_i}{2} \right) t_i}{y}$$

where L is Average Training Load,

i is a class (1,2,...n) scheduled for a training course within the training category under consideration,

E is number of expected entrants to scheduled class i,

G is number of expected graduates from scheduled class i,

t is the calendar length of the syllabus of class i, and

y is the length of a calendar year expressed in the same units as t (1 year = 12 months = 52 weeks = 365 days).

Fractions of carryover classes conducted during the year are included as though they were separate classes. However, individuals remaining in class at the end of a period are not counted as graduates, nor are individuals already in a class at the beginning of a period counted as entrants except for purposes of computing training loads for these fractions of courses.

The training load for a category or sub-category of training (e.g., Specialized Skill Training or Functional Training within that category) is the sum of the loads computed for all classes of courses within the category or sub-category.

This method of computation implies "straight-line" attrition, under an assumption that net class attrition occurs at a constant rate during a course. In the relatively few cases when attrition patterns experienced characteristically produce a significantly different distribution of attrition, the more appropriate attrition pattern is used in lieu of the term  $\frac{E + G}{2}$ .

Since attrition varies for different training programs and is not always spread uniformly throughout the length of a course of training, determining training loads becomes a complex problem in estimation. This process of estimation involves two related factors.

First, across the spectrum of training programs that are within the scope of this report, attrition varies from nearly zero to as high as 25 to 30 percent. Most officer Professional Development Education programs have practically no attrition. For FY 1984, the Services estimate that about 10 percent of new recruits, on a DoD average basis, will not complete Recruit Training because they will be found, in the course of undergoing training, not to have the mental or physical qualifications, or the motivation, for military life. Of these, some will fall ill or go absent without leave. Attrition rates in Specialized Skill Training vary widely, with the longer and more demanding courses tending to have higher losses. Pilot training is near the top of the scale in attrition; the higher rate of losses is based on lack of aptitude or motivation for flying, accidents, and similar causes which are intensified in this type of training. While historical data provide a basis for projecting attrition rates for all types of training, there is a considerable possibility for error based on variance in such factors as student quality and motivation.

A second necessary step in evaluating the effect of attrition is to estimate the phasing of attrition for each training program. In some courses, attrition tends to be higher in the early stages of a course when the inept and those lacking motivation are discovered. In other courses, the bulk of attrition may occur toward the end of the course. The patterns of losses vary widely among types of training and, to the detriment of precise planning, over time. The complexities of the



attrition variable makes it necessary for the Services to use computer simulations in their training load calculations which take into account the rates and time-phasing of attrition.

An additional variation is introduced into the conceptual process of forecasting requirements and planning training loads as described above by the seasonal and cyclical nature of new accessions to the Services. Inputs to many of the more stable training programs -- Professional Development Education, Flight Training, the Service Academies, and the most advanced portions of Specialized Skill Training -- are readily predictable. Inputs to the training programs which are dependent on new accessions, Recruit Training and Initial Skill Training for graduates of Recruit Training, are considerably more volatile. The volume of inputs to these types of training depends on such intangibles as job opportunities in the civilian economy and the decisions of young people to enlist, delay enlisting, or not enlist. Moreover, enlistments are seasonal in nature, following a long-term pattern of "good" and "bad" recruiting months, whereas phased requirements may move independently of these seasonal patterns. As a result, training loads for the initial active duty training programs are generally based on a compromise involving the timing of predicted enlistments and the capacity of the training base as well as when the new personnel are needed to fill vacancies in the job structure. Most of the courses in these programs are relatively short, and program adjustments can readily be made.

## APPENDIX B

## SELECTED MAJOR COURSES/SKILL AREAS TRAINED IN OTHER SERVICES

<u>Sponsoring Service</u>	<u>Major Interservice Course/ Skill Areas</u>	<u>Other Participating Services</u>
Army	Construction Equipment Operator	Marine Corps Air Force
Army	Airborne	Navy Marine Corps Air Force
Army	Artillery	Marine Corps
Army	Armor	Marine Corps
Army	Explosive Ordnance Disposal	Navy Air Force Marine Corps
Army	Medical Lab Technician	Navy
Army	Redeye Missile	Marine Corps
Army	Satellite Communication Fundamentals	Navy Air Force Marine Corps
Army	Tracked Vehicle Repair	Marine Corps
Army	Correctional Specialist	Navy
Army	Postal Clerk	Navy Marine Corps
Army	Foreign Language Training	Navy Marine Corps Air Force
Army	Allergy/Immunology	Air Force
Army	Public Affairs Training	Navy Marine Corps Air Force
Navy	Aviation Maintenance	Marine Corps Coast Guard

<u>Sponsoring Service</u>	<u>Major Interservice Course/ Skill Areas</u>	<u>Other Participating Services</u>
Navy	Cryptologic Courses	Army Marine Corps Air Force
Navy	Diving	Army Marine Corps Air Force Coast Guard
Navy	Musician	Army Marine Corps
Navy	Electronic Principles	Marine Corps Air Force
Navy	Cryptographic Maintenance	Marine Corps Air Force Coast Guard
Navy	Teletype Maintenance	Marine Corps
Marine Corps	Computer Systems, Programming (IBM 360)	Army Air Force Navy
Air Force	Navigator Training	Navy Marine Corps
Air Force	Tempest (Cryptologic Courses)	Army Navy Marine Corps
Air Force	Cryptologic Equipment Maintenance	Army Navy Marine Corps
Air Force	Precision Measurement Training	Army Marine Corps
Air Force	Aircraft Pneudraulic Repair	Army
Air Force	Weather Training	Army Navy Marine Corps
Air Force	Military Dog Handler	Army Navy Marine Corps

<u>Sponsoring Service</u>	<u>Major Interservice Course/ Skill Areas</u>	<u>Other Participating Services</u>
Air Force	Law Enforcement	Navy Marine Corps
Air Force	Fire Control Specialist	Army Marine Corps
Air Force	Nondestruct Inspection	Army Navy Marine Corps
Air Force	Defense Sensor Interpretation and Application Training	Army Navy Marine Corps
Air Force	Air Intelligence Training	Army Navy Marine Corps
Air Force	Lineman Training	Army Marine Corps
Air Force	Professional Comptroller	Army Navy Marine Corps
Air Force	Radio Communications Analysis	Army Navy Marine Corps
Air Force	Voice Processing	Army Navy Marine Corps
Air Force	Cryptoanalysis	Army Marine Corps

## APPENDIX C

### INDIVIDUAL TRAINING FACILITIES AT MAJOR LOCATIONS AND TRAINING CATEGORY, FY 1984

<u>Facility Location</u>	<u>Student Workload -</u>	<u>Training Staff E/S <sup>a/</sup></u>	
		<u>Military</u>	<u>Civilian</u>

#### A. Recruit Training

##### Army

Fort Dix, NJ	4,039	971	21
Fort Jackson, SC	6,810	1,464	31
Fort Knox, KY	2,677	616	29
Fort Leonard Wood, MO	3,364	910	28
Fort McClellan, AL	1,492	293	4
Fort Sill, OK	585	73	0
Fort Bliss, OK	592	84	2

##### Navy

Great Lakes, IL	6,286	590	6
Orlando, FL	5,168	511	0
San Diego, CA	4,697	450	8

##### Marine Corps

Parris Island, SC	5,930	1,335	5
San Diego, CA	5,474	1,087	5

##### Air Force

Lackland Air Force Base, TX	9,879	781	20
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a/ Reflects manpower end-strength (E/S) to include instructors, school/training center staffs, student supervisors. Excludes training support, Management Headquarters and Base Operating Support.

<u>Facility Location</u>	<u>Student Workload</u>	<u>Training Staff E/S</u> <sup>a/</sup>	<u>Military</u>	<u>Civilian</u>
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B. Officer Acquisition Training

Army

Fort Benning, GA	305	32	3
Fort Monmouth, NJ	276	47	25
West Point, NY	4,137	838	1,046

Navy

Annapolis, MD	4,375	733	888
Newport, RI	907	117	17
Pensacola, FL <sup>b/</sup>	313	-	-

Marine Corps

Quantico, VA	453	259	4
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Air Force

Colorado Springs, CO	4,330	1,003	687
Lackland Air Force Base, TX	1,080	204	17

<sup>a/</sup> Reflects manpower end-strength (E/S) to include instructors, school/training center staffs, student supervisors. Excludes training support, Management Headquarters and Base Operating Support.

<sup>b/</sup> Manpower not separately identified by training category in manpower documents.

<u>Facility Location</u>	<u>Student Workload</u>	<u>Training Staff E/S</u> <sup>a/</sup>	
		<u>Military</u>	<u>Civilian</u>

C. Specialized Skill Training

Army

Aberdeen Proving Ground, MD	3,069	1,195	182
Charlottesville, VA	232	30	0
Fort Belvoir, VA	1,563	617	181
Fort Benning, GA	3,747	1,073	143
Fort B. Harrison, IN	2,434	518	123
Fort Bliss, TX	1,635	1,129	309
Fort Bragg, NC	653	616	100
Fort Devens, MA	1,266	659	218
Fort Dix, NJ	126	38	0
Fort Eustis, VA	2,021	869	246
Fort Gordon, GA	7,431	2,415	835
Fort Huachuca, AZ	1,417	485	165
Fort Jackson, SC	3,678	863	56
Fort Knox, KY	2,496	1,208	327
Fort Lee, VA	4,402	1,206	302
Fort L. Wood, MO	1,470	496	21
Fort McClellan, AL	1,749	845	131
Fort Rucker, AL	877	332	98
Fort Sam Houston, TX	5,209	900	160
Fort Leavenworth, KA	220	41	16
Fort Sill, OK	2,497	1,097	273
Fort Monmouth, NY	168	71	28
Monterey, CA	3,414	236	825
Redstone Arsenal, AL	1,499	1,051	408
Rock Island, IL	376	0	66
Savanna Army Depot, IL	177	0	42
Texarkana, TX	270	0	35
Fort Ord, CA	96	47	20

<sup>a/</sup> Reflects manpower end-strength (E/S) to include instructors, school/training center staffs, student supervisors. Excludes training support, Management Headquarters and Base Operating Support.

<u>Facility Location</u>	<u>Student Workload</u>	<u>Training Staff E/S</u> <sup>a/</sup>	
		<u>Military</u>	<u>Civilian</u>
<u>Navy</u>			
Athens, GA	315	51	16
Bangor, WA	218	442	37
Bethesda, MD (Medical)	190	57	5
Charleston, SC	710	475	7
Dam Neck, VA	2,280	1,315	57
Great Lakes, IL	9,413	1,575	41
Great Lakes (Medical)	842	86	7
Groton, CT	1,876	886	7
Groton, CT (Medical)	96	15	3
Gulfport, MS	457	132	11
Idaho Falls, ID	419	597	0
Indian Head, MD	299	97	6
Jacksonville, FL	317	278	0
Lakehurst, NJ	276	170	10
Little Creek, VA	755	164	8
Mayport, FL	225	160	2
Memphis, TN	8,047	1,135	200
Meridian, MS	1,056	130	10
Newport, RI	782	430	29
Norfolk, VA	1,927	1,108	23
Oakland, CA	67	10	8
Orlando, FL	5,004	503	23
Panama City, FL	132	126	5
Pearl Harbor, HI	289	260	11
Pensacola, FL	2,376	840	133
Pensacola, FL (Medical)	106	62	1
Philadelphia, PA	296	50	4
Port Hueneme, CA	487	157	28
Portsmouth, VA (Medical)	299	56	3
San Diego, CA	8,454	3,335	233
San Diego, CA (Medical)	1,360	175	10
San Francisco, CA	416	150	24
Schenectady, NY	470	704	0
Vallejo, CA	1,117	515	0
Windsor, CT	204	180	0
Whidbey Island, WA	173	113	0

<sup>a/</sup> Reflects manpower end-strength (E/S) to include instructors, school/training center staffs, student supervisors. Excludes training support, Management Headquarters and Base Operating Support.



<u>Facility Location</u>	<u>Student Workload</u>	<u>Training Staff E/S</u>	<u>a/</u>
		<u>Military</u>	<u>Civilian</u>

Marine Corps

Albany, GA	26	21	2
Camp Lejeune, NC	2,375	855	27
Camp Pendleton, CA	816	399	7
Parris Island, SC	67	15	0
Quantico, VA	1,206	995	48
San Diego, CA	302	60	1
Twentynine Palms, CA	1,749	709	48

Air Force

Chanute Air Force Base, IL	5,725	1,127	485
Fairchild Air Force Base, WA	251	338	23
Goodfellow Air Force Base, TX	1,733	403	35
Homestead Air Force Base, FL	56	133	2
Keesler Air Force Base, MS	8,014	1,994	664
Lackland Air Force Base, TX	3,646	1,116	211
Lowry Air Force Base, CO	5,785	1,495	341
Sheppard Air Force Base, TX	6,269	1,391	529

a/ Reflects manpower end-strength (E/S) to include instructors, school/training center staffs, student supervisors. Excludes training support, Management Headquarters and Base Operating Support.

<u>Facility Location</u>	<u>Workload</u>	<u>Training Staff E/S</u> <sup>a/</sup>	
		<u>Military</u>	<u>Civilian</u>

D. Flight Training

Army

Fort Rucker, AL	1,796	1,343	431
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Navy

Chase Field, TX	129	1,321	136
Corpus Christi, TX	272	799	129
Kingsville, TX	129	1,404	92
Meridian, MS	81	1,104	63
Pensacola, FL	445	1,738	177
Sacramento, CA	--	32	1
Whiting Field, FL	511	1,086	90

Air Force

Columbus Air Force Base, MS	455	1,222	85
Lackland Air Force Base, TX	190	9	0
Laughlin Air Force Base, TX	486	1,318	125
Mather Air Force Base, CA	914	1,035	146
Randolph Air Force Base, TX	171	806	144
Reese Air Force Base, TX	438	1,166	168
Sheppard Air Force Base, TX	278	267	27
Vance Air Force Base, OK	426	396	13
Williams Air Force Base, AZ	464	1,294	147

<sup>a/</sup> Reflects manpower end-strength (E/S) to include instructors, school/training center staffs, student supervisors. Excludes training support, Management Headquarters and Base Operating Support.

<u>Facility Location</u>	<u>Workload</u>	<u>Training Staff E/S</u> <sup>a/</sup>	
		<u>Military</u>	<u>Civilian</u>

### E. Professional Development Education

#### Army

Carlisle Barracks, PA	241	111	132
Fort Belvoir, VA	245	63 <sup>b/</sup>	108
Fort Bliss, TX	279	79	21
Fort Leavenworth, KA	797	198	139
Fort McNair, DC	559	64 <sup>c/</sup>	42

#### Navy

Monterey, CA	1,670	87	460
Newport, RI	502	199	213
Norfolk, VA	283	26	48

#### Marine Corps

Quantico, VA	408	194	46
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#### Air Force

Bolling AFB DC	12	21	2
Gunter Air Force Station, AL	197	58	8
Maxwell Air Force Base, AL	1,554	494	148
Wright-Patterson Air Force Base, OH	1,259	236	280

<sup>a/</sup> Reflects manpower end-strength (E/S) to include instructors, school/training center staffs, student supervisors. Excludes training support, Management Headquarters and Base Operating Support.

<sup>b/</sup> 23 Army, 40 Other Services

<sup>c/</sup> 21 Army, 43 Other Services

<u>Facility Location</u>	<u>Student Workload</u>	<u>Training Staff E/S</u> <sup>a/</sup>	
		<u>Military</u>	<u>Civilian</u>

F. One-Station Unit Training (OSUT)

Army

Fort Benning, GA	7,790	1,680	58
Fort Bliss, TX	1,346	483	10
Fort Dix, NJ	2,498	663	9
Fort L. Wood, MO	4,863	1,378	86
Fort Sill, OK	3,758	1,386	83
Fort McClellan, AL	2,457	555	22
Fort Knox, KY	2,633	1,205	168

<sup>a/</sup> Reflects manpower end-strength (E/S) to include instructors, school/training center staffs, and student supervisors. Excludes training support, management headquarters, and base operating support.

# APPENDIX D

## SUMMARY OF TOTAL FUNDING FOR INDIVIDUAL TRAINING AND EDUCATION, BY SERVICE AND APPROPRIATION, FY 1982-84 (\$ millions)

<u>Appropriation</u>	<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>
<u>Army -</u>			
Operations and Maintenance	\$2,117.4	\$2,180.4	\$2,396.7
Military Personnel	1,889.1	2,010.4	2,049.0
Reserve Personnel	166.5	188.4	197.5
National Guard Personnel	212.1	229.8	279.0
Aircraft Procurement	51.5	106.5	201.0
Missile Procurement	.5	1.0	1.4
Procurement Weapons and Tracked Combat Vehicles	.6	17.0	19.6
Procurement of Ammunition	1.6	-	-
Other Procurement	85.3	23.2	23.0
Military Construction	99.2	119.8	161.3
Total Army	\$4,624.1	\$4,876.6	\$5,328.3

<u>Appropriation</u>	<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>
<u>Navy</u>			
Operations and Maintenance	\$1,039.2	\$1,118.8	\$1,266.6
Military Personnel	1,928.3	1,958.5	2,068.2
Reserve Personnel	17.1	20.5	52.3
Aircraft Procurement	155.2	198.1	263.5
Other Procurement	103.3	75.6	126.1
Military Construction	99.1	111.8	117.7
Total Navy	\$3,342.3	\$3,483.3	\$3,894.4

<u>Marine Corps</u>			
Operations and Maintenance	\$ 115.6	\$ 132.6	\$ 144.7
Military Personnel	614.8	694.4	710.2
Reserve Personnel	51.0	52.6	47.9
Procurement	18.2	25.5	5.7
Total Marine Corps	\$ 799.6	\$ 905.1	\$ 908.5

<u>Appropriation</u>	<u>FY 82</u>	<u>FY 83</u>	<u>FY 84</u>
<u>Air Force</u>			
Operations and Maintenance	\$1,177.8	\$1,183.5	\$1,309.6
Military Personnel	1,483.2	1,544.6	1,655.7
Reserve Personnel	23.0	27.3	30.4
National Guard Personnel	48.0	62.3	65.8
Aircraft Procurement	110.9	111.5	106.0
Other Procurement	15.5	17.1	25.0
Military Construction	<u>69.8</u>	<u>104.3</u>	<u>71.8</u>
Total Air Force	\$2,928.5	\$3,407.0	\$3,264.5
Total Department of Defense	\$11,694.5	\$12,407.0	\$13,395.7

Note: Totals may not add due to rounding. These totals exclude funding for individual education and training programs for which loads are not requested and for which funds were not shown in the funding tables in Chapter X (e.g., ROTC).

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